# MAGMA

1959

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# THE MAGMA

## 1959

Published by the Associated Students
of Montana School of Mines

Editor
Gene Trimble

Associate Editor
Claude Pickard

*Dr. Stephen W. Nile*

# Dedication

*Dr. Nile is a quiet, unassuming man who joined the M.S.M. faculty in 1944. He will long be remembered by those students fortunate enough to have studied under him. Many will recall his high academic standard, his intensive and thorough preparation of lectures, his jokes, and his friendly smile and greeting around the campus. All will recall his genuinely zealous interest in the student.*

*Moreover, this interest is both tangible and intangible. It is tangible in personal counseling sessions as well as in the classroom. His erudition is not used to impress the student but rather to guide him through the intricacies of subjects which are fundamental to an engineer. His influence and impact are intangible, in that they are not always expressly implied, but in that they are both academically and spiritually felt and strongly sensed by his students.*

*To you, Dr. Nile, this year's MAGMA is humbly dedicated in behalf of those students whom you have aided, advised, and befriended, and in recognition of your unselfish contributions to the student, to M.S.M., and to the community. To you the terms "educator" and "friend" can be applied in the fullest connotation. May your future years be filled with continued success and happiness.*

# *President Koch*

"Many things are not apparent among these pages: our years of attending classes, the energies consumed in preparation for them, and many other experiences (both pleasant and unpleasant). What we do see are images of those who shared our work and our play, some of whom will be our life-long friends because of such association; and through this picture story we will be reminded in years to come of many people, situations, and experiences which would otherwise be lost to us forever.

"The year 1958-59 has been a good year at MSM. Let us look forward to even greater co-ordination and accomplishment in the future. To the seniors we extend our warmest regards for happiness and success. Montana School of Mines will go with you throughout your future years."

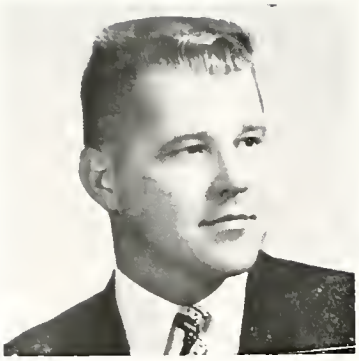
# *Dean McAuliffe*

"Faculty and student cooperation has been notable during the past year and class work and activities have proceeded very satisfactorily. With improvements here and there, an increasing seriousness of purpose has been evident. All together, we have had a splended year of association and I want to commend the seniors for their cooperation in making it so.

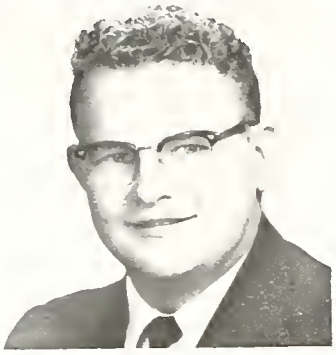
"Montana School of Mines has already provided you with an essential part of your training. The organizations which many of you will now join are prepared to aid in your professional development. As you commence on another road, no matter where that road may lead, I wish you good luck and much happiness along the way."

MARCUS DALY.
A PIONEER MINER WHO FIRST DEVELOPED
THE FAMOUS PROPERTIES ON THE HILL
OVERLOOKING THE SITE OF THIS MEMORIAL
WHICH IS ERECTED BY HIS FELLOW CITIZENS
IN TRIBUTE TO HIS NOBLE TRAITS OF CHARACTER
IN GRATEFUL REMEMBRANCE OF HIS GOOD DEEDS
AND IN COMMEMORATION OF THE SPLENDID
SERVICES HE RENDERED AS A BUILDER
OF THE CITY OF BUTTE AND THE STATE
OF MONTANA
ERECTED A D 1906

# MAGMA



**Gene Trimble**
Editor



**Claude Pickard**
Associate Editor

**Jim McLaughlin**
Business Manager

Any year book has as its prime purpose the depiction of a school year in a manner that will recall the maximum of memories in future years. The **Magma** this year utilizes memories as a theme, but places a slight accent on those of the graduating seniors.

Walt Enderlin, although occassionally muttering something about tests, spent a considerable amount of time and effort in obtaining the quality and type of pictures necessary for our theme. His work, with the cooperation of the student body and faculty, provided the foundation for this annual.

Mel Bennett can truly call the sports section his own. After an initial conference, he took complete charge of his section and did an excellent job.

Another outstanding staff member was Jim McLaughlin. Regardless of the time, whether it was evenings or weekends,

**Walt Enderlin**
Photographer

**Mel Bennet**
Sports Editor

**Dick Coppage**
Asst. Sports Editor

# STAFF

Jim was available and took up much of the slack which developed in other sections. His work as Business Manager was lightened by having two energetic Ad Salesmen — Richard Herndon and John Bennett.

Claude Pickard did a fine job as Associate Editor. He provided some sound advice and a considerable amount of work—particularly when our deadline for press approached.

To Mrs. Nile goes our sincere thanks for her advice, and tireless work on the photography.

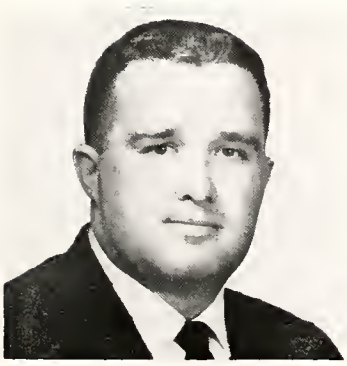
The cooperation and effort of EVERYONE on this year's staff made the job of Editor both interesting and enjoyable . . . My sincere thanks to all of them. If this annual provides many memories—and perhaps a few chuckles—of your campus life at MSM, then our purpose has been accomplished.

EDITOR

**Mr. Albertson**
Faculty Advisor

**Mrs. McBride**
Faculty Advisor

**Sandy Maddock**
Activities Editor



**Dick Herndon**
Advertising Salesman

**John Bennett**
Advertising Salesman

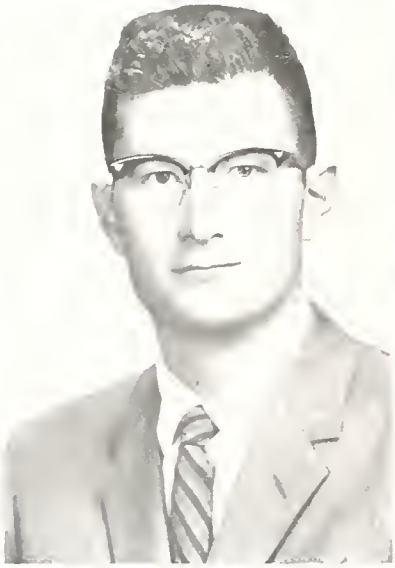
**Suzanne Dunlap**
Art Editor

# *Faculty*

**Harry J. Christoffers**
Asst. Professor of Chemistry

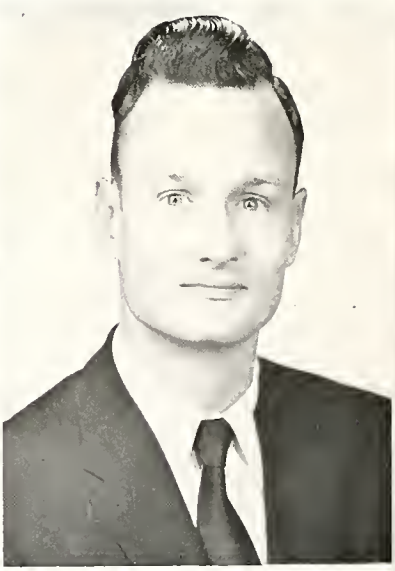
**Kenneth N. McLeod (Dr.)**
Professor and Head,
Department of Chemistry

**George G. MacDonald**
Asst. Professor of Chemistry



**William B. Hall**
Assistant Professor of Geology

**Fred N. Earll (Dr.)**
Associate Professor and Acting
Head, Department of Geology



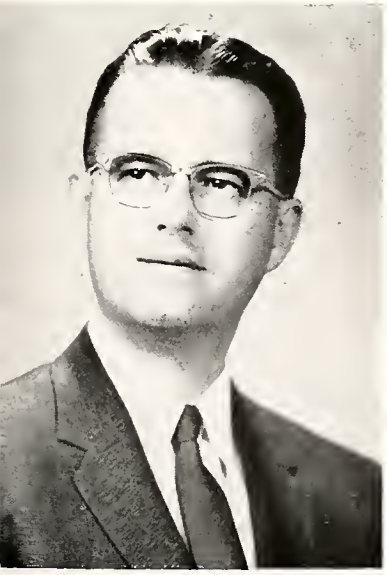
**Willard E. Cox**
Assistant Professor of Geology

# *Faculty*

**William W. Chance**
Professor of English

**Clifford W. Laity**
Professor of History; Head, Department of Humanities and Social Studies

**Dale E. Pinckney**
Assistant Professor of Social Studies



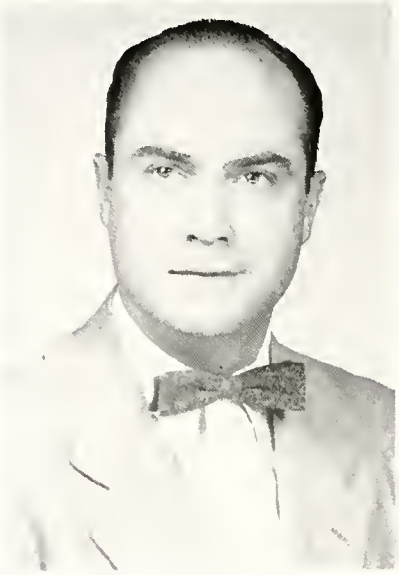
**Frank H. Kelly**
Assistant Professor of Economics

**Louise L. McBride (Mrs. T. F.)**
Assistant Professor of Modern Languages; Adviser to Women Students

**James H. Albertson**
Associate Professor of English

# *Faculty*

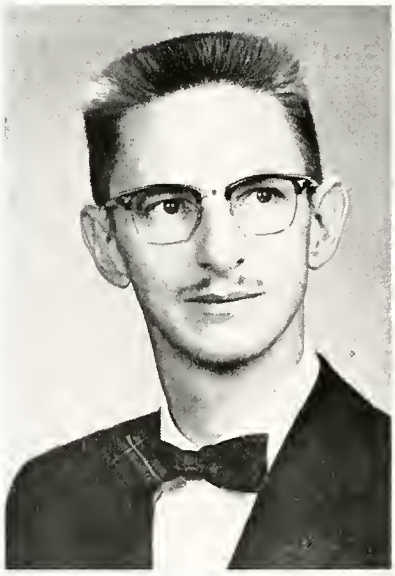
**Elizabeth S. Satter**
Assistant Professor of
Mathematics



**Joseph W. Duroux**
Assistant Professor of
Mathematics

**Theodore S. Jordan**
Instructor in Mineral Dressing

**Donald W. McGlashan**
Research Professor and Head
Department of Mineral Dressing



**Charles W. Haynes (Dr.)**
Associate Professor and Head
Department of Metallurgy

**Ralph I. Smith**
Associate Professor of Metallurgy

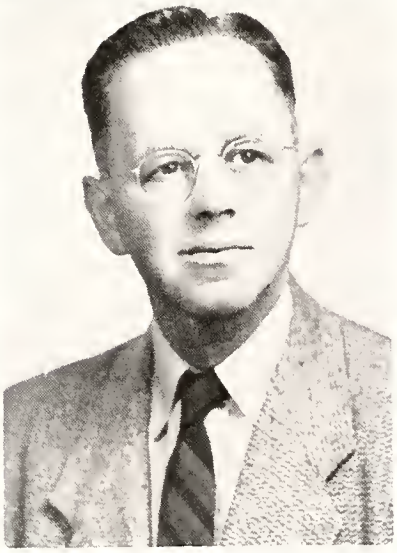
# *Faculty*

**Koehler S. Stout**
Associate Professor of
Mining Engineering

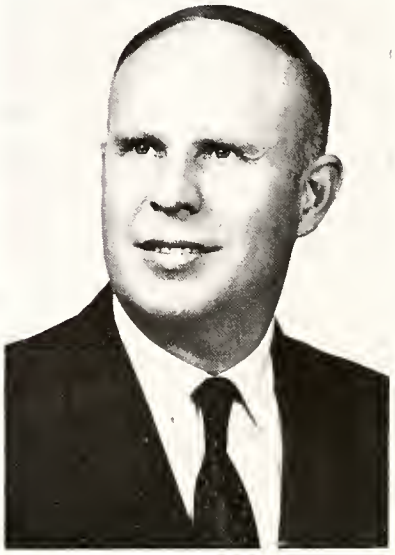
**William A. Vine**
Professor and Head
Department of Mining Engineering

**Milton W. Brown**
Registrar; Business Manager

**John G. McCaslin**
Assistant Professor of Physics



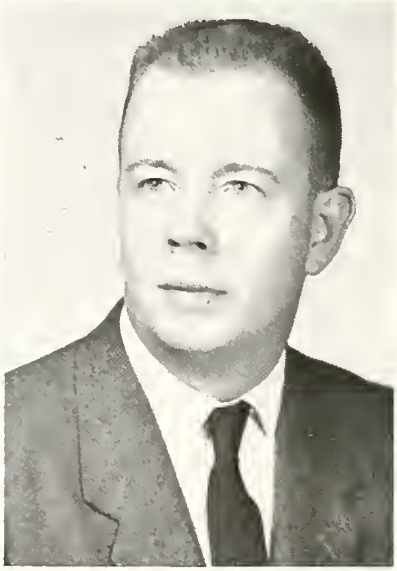
**Stephen W. Nile (Dr.)**
Professor and Head
Department of Physics



**Sergio Zaderenko (Dr.)**
Professor and Head, Department
of Mechanics and Electricity

# *Faculty*

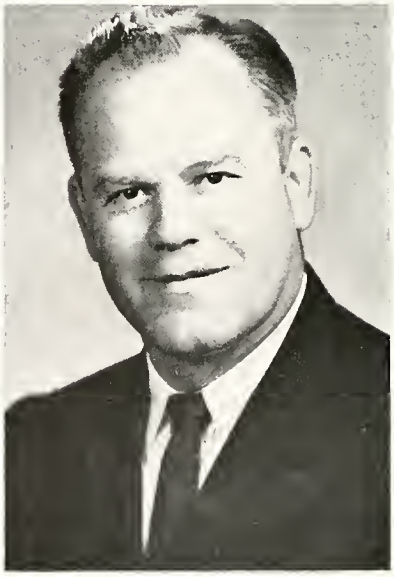
**Gustav Stelz, Jr.**
Assistant Professor of Petroleum Engineering



**Douglas H. Harnish, Jr.**
Associate Professor and Head, Department of Petroleum Engineering

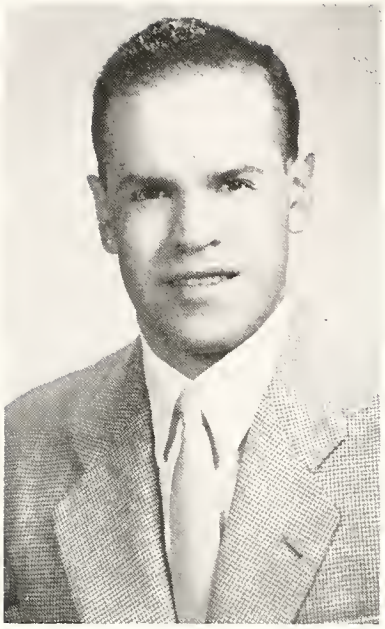
**Loretta B. Peck (Mrs. C.)**
Librarian, Associate Professor

**Margaret Sarsfield (Mrs. G. P.)**
Instructor in Physical Education for Women

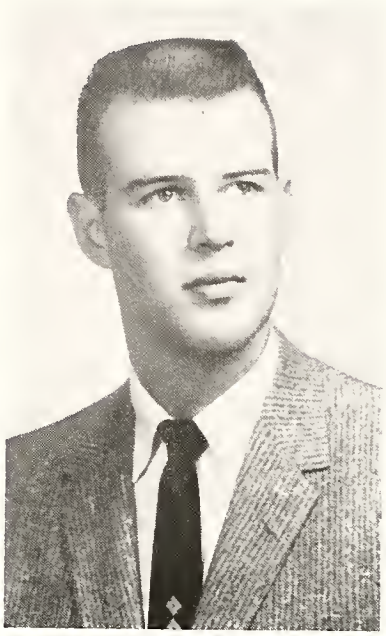


**Edward F. Simonich**
Director of Athletics; Coach; Assistant Professor of Physical Education

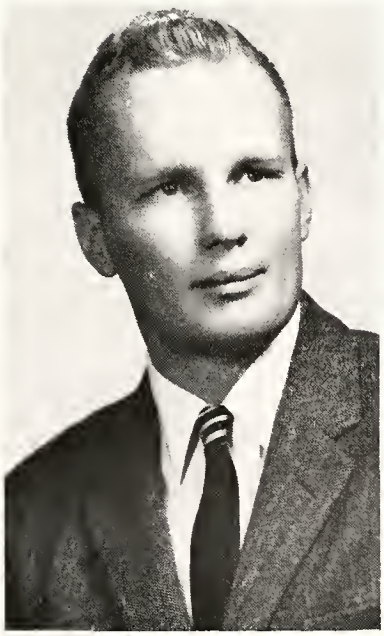
# *Graduate Students*



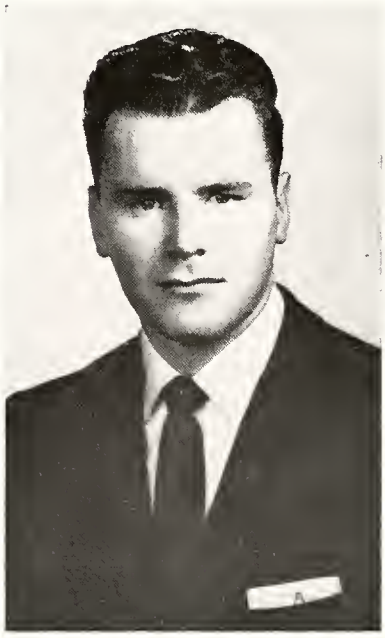
**Jose H. Arevalo**
Arequipa, Peru
Mineral Dressing



**David H. Dahlem**
Los Angeles, California
Geology



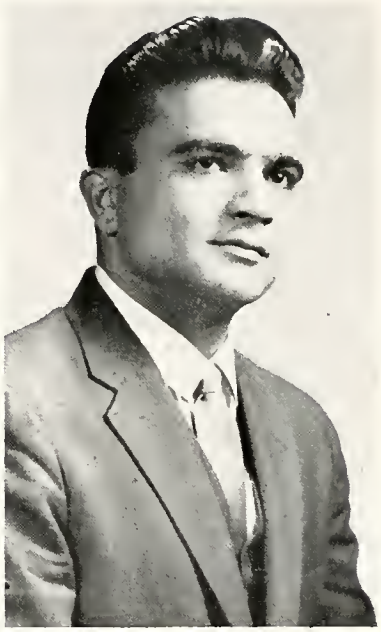
**Kenneth F. Fox, Jr.**
Hardin, Montana
Geology



**Aurelio Madrazo**
Butte, Montana
Petroleum

# *Graduate Students*

**Gordon R. Parker**
Capetown, S. Africa
Mineral Dressing



**Esfandiar Saeed**
Tajrish, Tehran, Iran
Mineral Dressing

**Wil iam R. Wayment**
Butte, Montana
Mining

DEANS OFFICE
102

SENIORS
"If you will . . . "

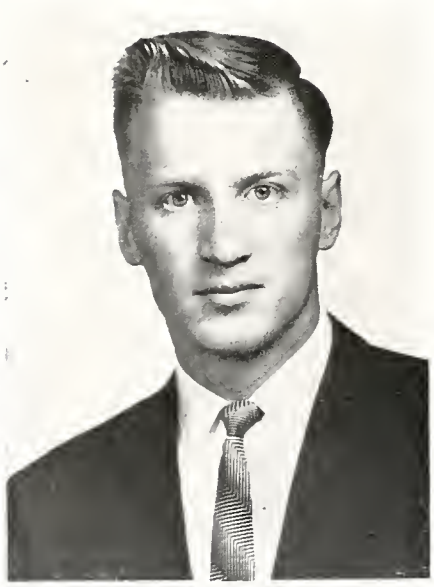
# *Seniors*

**Joseph Henry Bato**

Butte, Montana; Petroleum; Theta Tau, Anderson-Carlisle, American Society for Testing Materials, Bowling, President of Senior Class

**Albert Roy Rule**

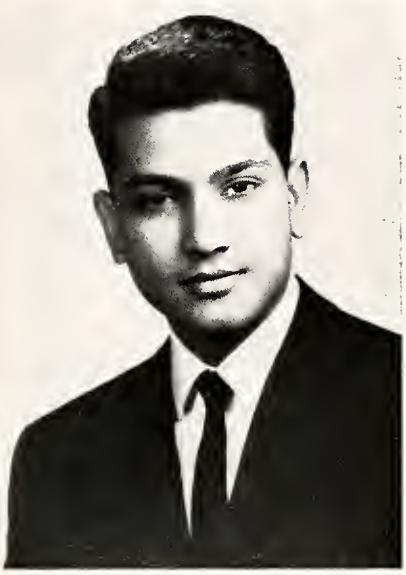
Butte, Montana; Mineral Dressing, Sigma Rho, Anderson-Carlisle, American Society for Metals, Dramatics, Secretary Junior Class, Vice-President Senior Class.



**Carl Alfred Plate**

Butte, Montana; Metallurgy, Advanced Scholarship from MSM Butte Rotary Scholarship, Football, Sigma Rho, Copper Guards, Anderson-Carlisle, American Society for Metals, Secretary Senior Class.

# *Seniors*



**Javaid Munir Alvi**

Gujranwala, West Pakistan;
Petroleum and Geology;
Exchange Student Scholarship.

**Richard Wells Banghart**

Greenwich, Connecticut;
Mining; Football, Hockey,
Sigma Rho, Copper Guards,
Anderson-Carlisle, M Club,
Student Council, Hall
Council, Student Manager

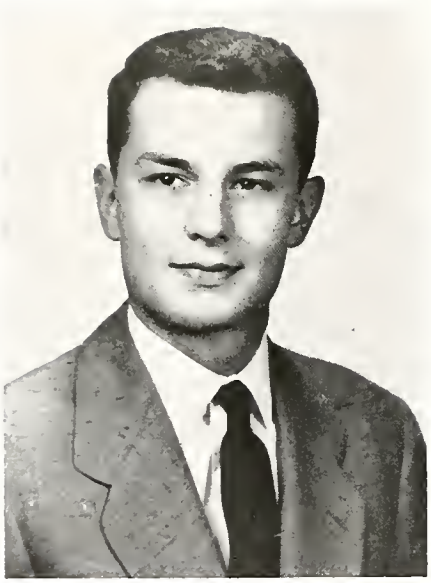
**Curtis Farrell Bates**

Anaconda, Montana; Metallurgy;
American Society for Metals.

# *Seniors*

**James Paul Connell**

Butte, Montana; Geology, (M.O.); Advanced Scholarship from MSM; Debate, Copper Guards, Anderson-Carlisle, Ski Club, Newman Club, Hall Council.



**Gus Becher Coolidge**

Sunburst, Montana; Petroleum; Coulter Foundation Scholarship, Basketball, Baseball, Theta Tau, Anderson-Carlisle, Copper Guards.

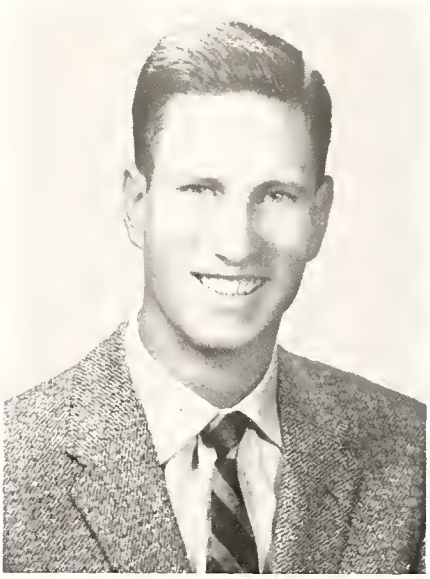
**Richard Laurence Coppage**

Redding, California; Petroleum; Football, Track, Sigma Rho, Anderson-Carlisle.

# *Seniors*

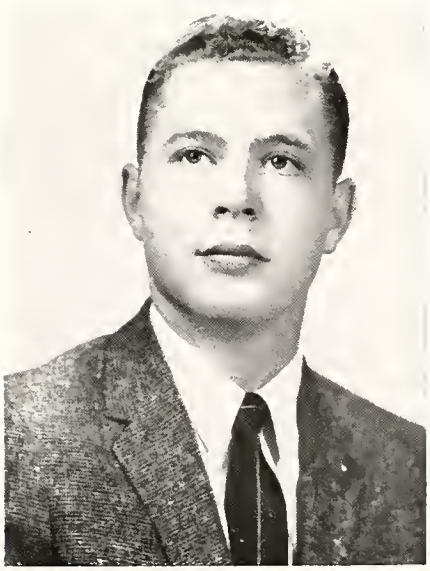
**Donald Richard Corson**

Bigfork, Montana; Geology, (M. O.); President Anderson-Carlisle Society, Who's Who, Copper Guards, President Junior Class



**Johannes Petrus Dreyer**

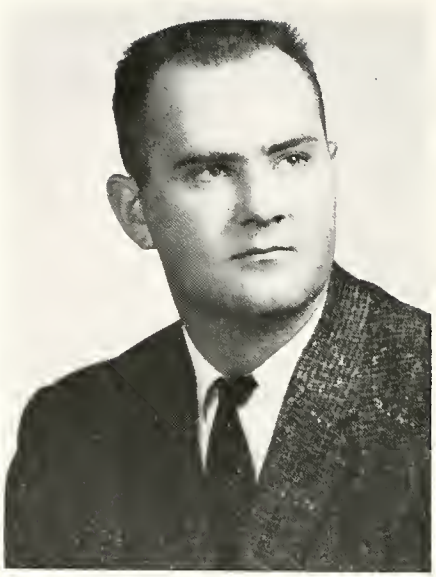
Kamieskroon, South Africa; Mineral Dressing; South African O'Okiep Copper Company, Sigma Rho.



**Richard O. Engebretsen**

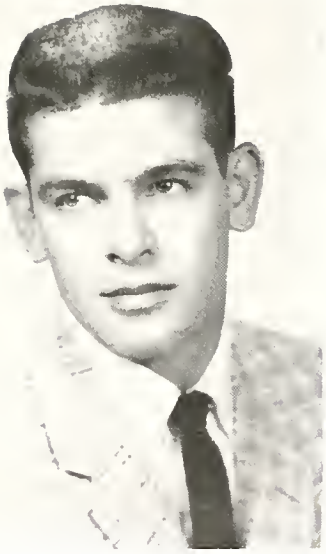
Cut Bank, Montana; Petroleum; Sigma Rho, Anderson-Carlisle, Copper Guards.

# *Seniors*



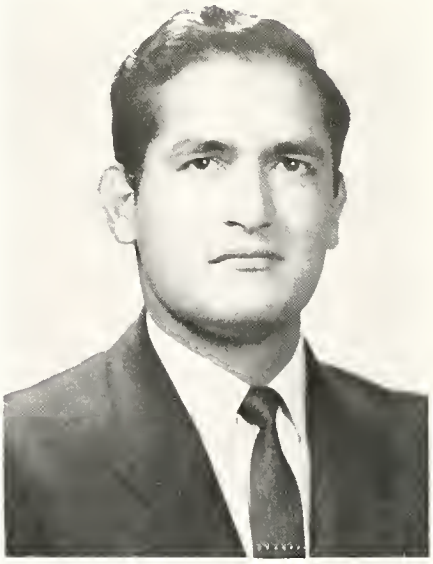
**Alan Robert Kerr**

Great Falls, Montana; Geology (P. O.); Theta Tau Fraternity, Anderson-Carlisle, Copper Guards.



**Lilburn Lueck**

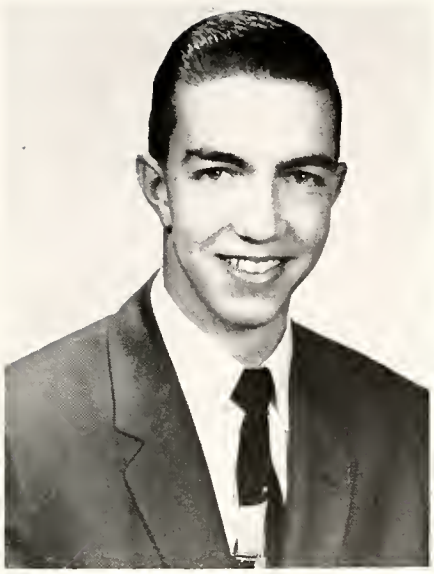
Ennis, Montana; Petroleum; Mobil Producing Scholarship, Anderson-Carlisle, Who's Who, Basketball.



**Mohammad Ashraf Mahtab**

Sargodha, West Pakistan; Mining; Exchange Student Scholarship.

# *Seniors*

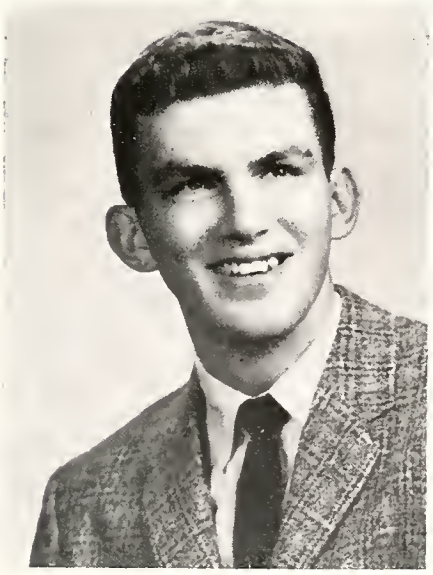


**David Stephen Malyevac**

Butte, Montana; Metallurgy; Sigma Rho, American Society for Metals, Copper Guards, Vice-President Mineral Section Anderson-Carlisle.

**George Mason Maxwell**

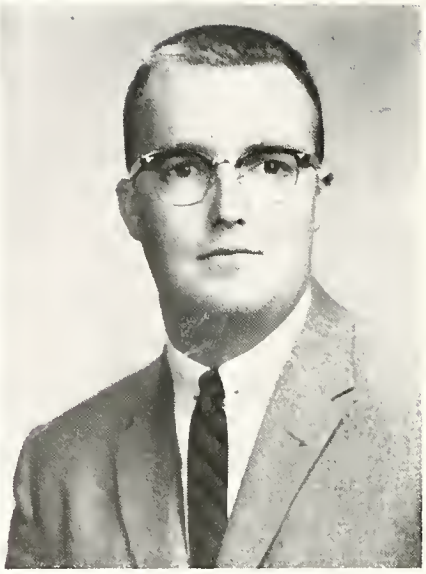
Warm Springs, Montana; Metallurgy; Advanced Scholarship from MSM, American Smelting and Refining Scholarship, Baseball, Sigma Rho, American Society for Metals, Copper Guards, Dramatics, Who's Who, Vice-President Junior Class.



**Richard Dale Osterman**

Black Eagle, Montana; Petroleum; Anderson-Carlisle, American Society for Testing Materials.

# *Seniors*



**William Howard Painter**

Bozeman, Montana; Mineral Dressing; Theta Tau, Anderson-Carlisle, Hall Council.

**Claud Frank Pickard**

Miles City, Montana; Petroleum; Theta Tau, Vice-President Petroleum Section of Anderson-Carlisle, Associate Editor of Magma.

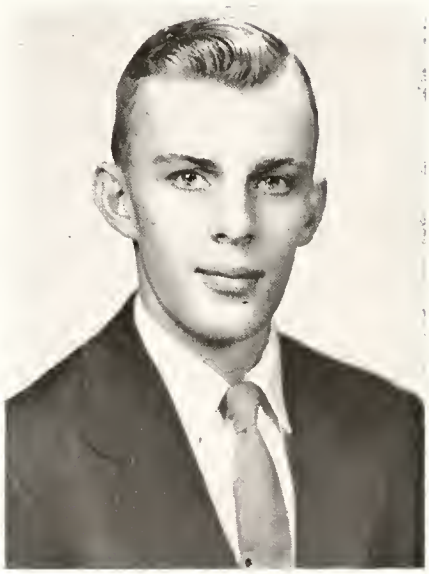
**Syed Hamid Raza**

Quetta, Pakistan; Petroleum; Exchange Student Scholarship.

# Seniors

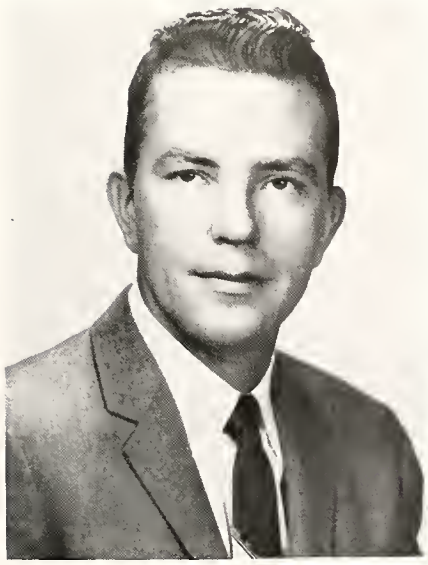
**Richard William Roberts**

Anchorage, Alaska; Metallurgy; American Society for Metals Scholarship, MSM Advanced Honor Scholarship, Theta Tau, Anderson-Carlisle, American Society for Metals, Vice-President Student Council, Copper Guards.



**Allen Arthur Sawitke**

Willoughby, Ohio; Geology (P.O.); Hockey, Anderson-Carlisle, Mineral Club.



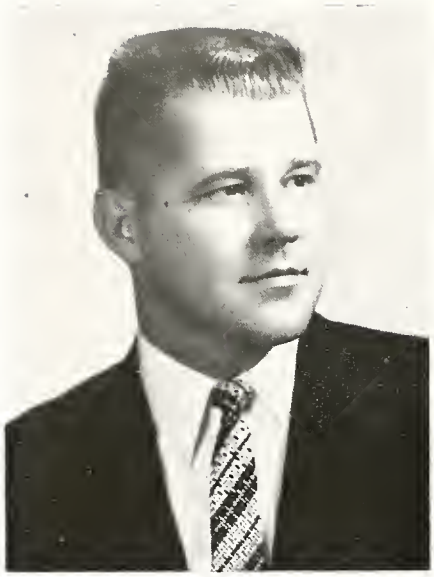
**Arthur L. Story**

Cut Bank, Montana; Geology; Football, Theta Tau, Anderson-Carlisle, Copper Guards, Student Council, M-Club, Magma Editor

# *Seniors*

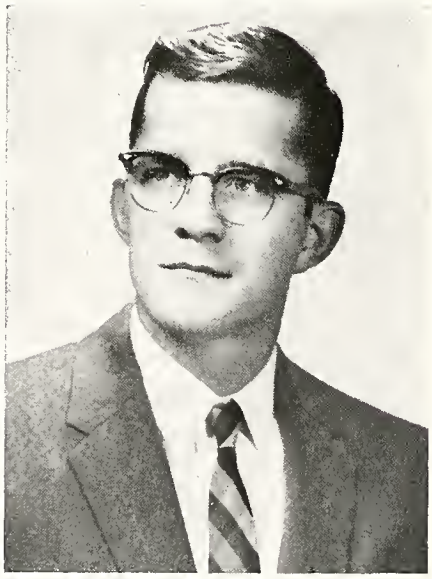
**Peter Hugh Sweeney**

Dell, Montana; Geology, (M. O.), Sigma Rho, Anderson-Carlisle



**Eugene Alfred Trimble**

Eugene, Oregon; Geology (P. O.) MSM Advanced Scholarships, Sigma Rho, Anderson-Carlisle, Who's Who, Editor of Magma



**Philip A. Van Alstine**

Butte, Montana; Geology (M. O.); Theta Tau.

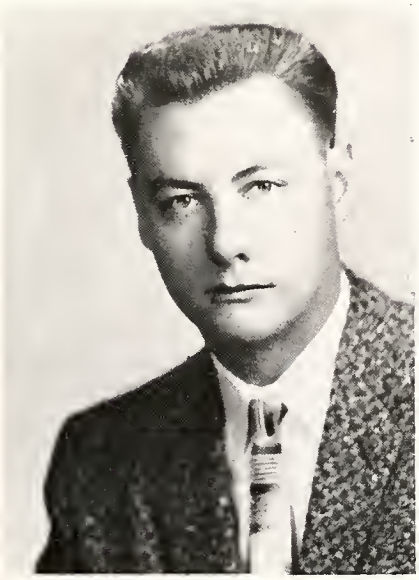
# *Seniors*

**Albert Courtney Walkup**

Philipsburg, Montana; Mining; American Smelting and Refining Scholarship, Football, Basketball, Sigma Rho, Anderson-Carlisle, M Club, Vice-President Freshman Class, Hall Council.

**James Dale Wallace**

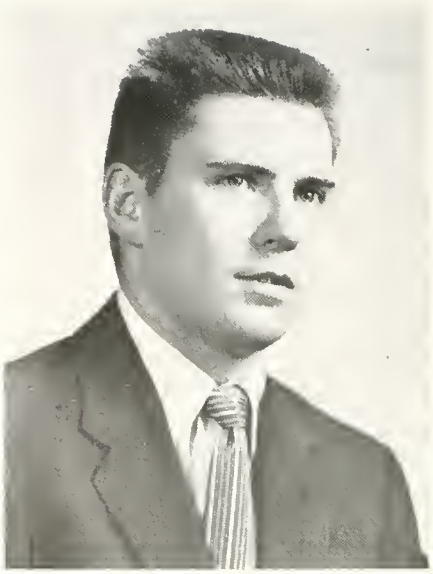
Livingston, Montana; Mining; Gardner-Denver Mining Scholarship, Vice-President Mining Section of Anderson-Carlisle, Mineral Club.



**Thomas J. Wright**

Anaconda, Montana; Mineral Dressing.

# *Seniors*



**Jerome Arthur Yopps**

Waukesha, Wisconsin; Metallurgy; Baseball, Sigma Rho, American Society for Metals.

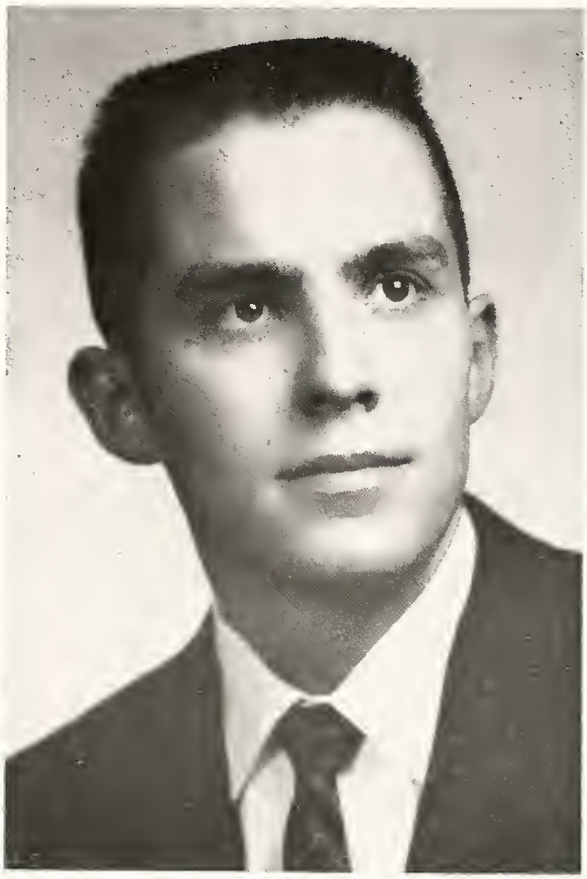
**Gordon F. Ziesing**

Union, New Jersey; Mineral Dressing; Football, Theta Tau, Anderson-Carlisle.

**Robert Paul Wylie**

White Sulphur Springs, Montana; Geology (P. O.); Theta Tau, Anderson-Carlisle Society, Who's Who, President and Delegate Student Council, Dramatics, Editor and Co-Editor Amplifier, Sports Editor Magma, Advanced Honor Scholarships.

# In Memoriam



Students and faculty were saddened May 17, 1959, to learn of the death of Gary Alexander, Senior student in Metallurgy. Those who knew and worked with Gary will feel a deep loss: his esprit de corps, his sincerity, and his warm friendliness build a memory for all to hold dear.

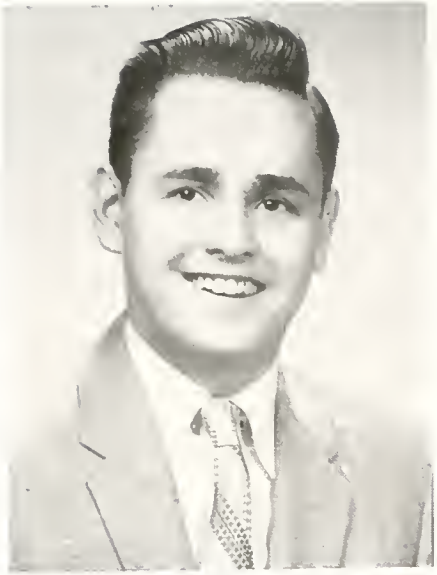
Tragedy struck Mr. Alexander in a mountain climbing accident near Whitehall, Montana; his degree, however, has been granted with his class of 1959 and will be awarded posthumously.

Last Survey Camp at Maiden Rock

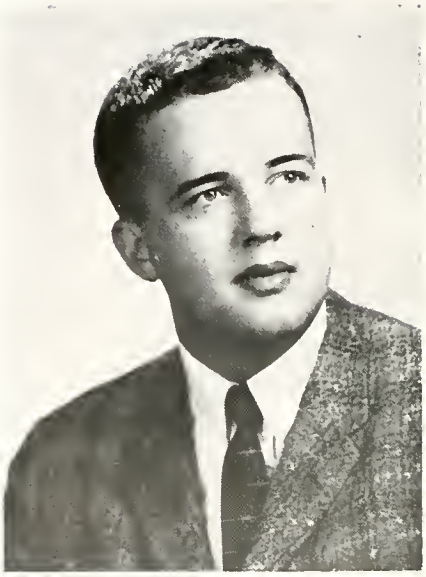
# JUNIORS

*"According to zee text . . .*

# *Juniors*

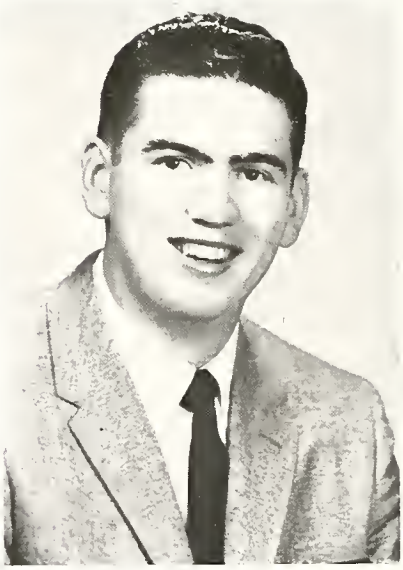


**Kenneth H. Erickson**
Vice-President
Grand Rapids, Minnesota
Mining



**Donald K. Roberts**
President
Whitehall, Montana
Geology

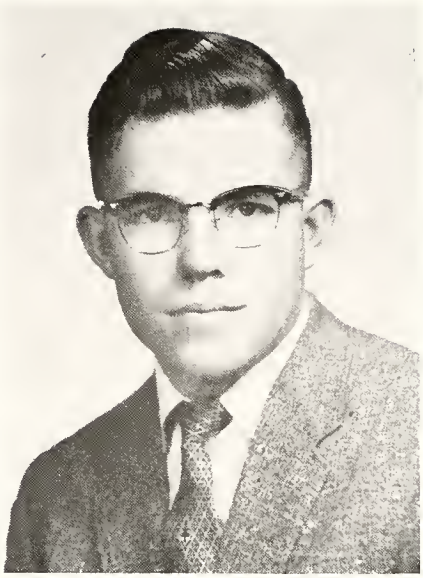
**Michael R. Maddocks**
Secretary-treasurer
Calgary, Alberta
Petroleum



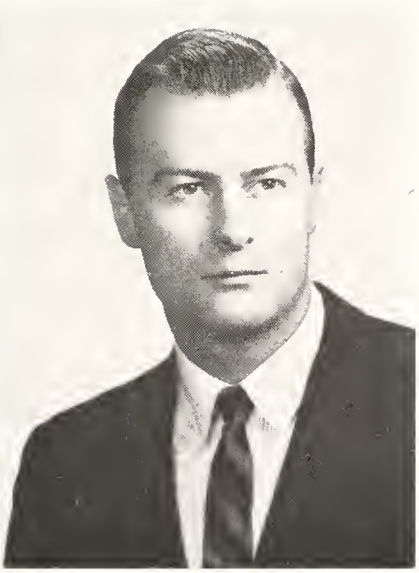
**Wm. Ralph Byrne**
Butte, Montana
Metallurgy

# *Juniors*

**Walter I. Enderlin**
San Francisco, Calif.
Petroleum



**George A. Grandy**
Butte, Montana
Metallurgy



**Robert W. Hoy**
Butte, Montana
Petroleum

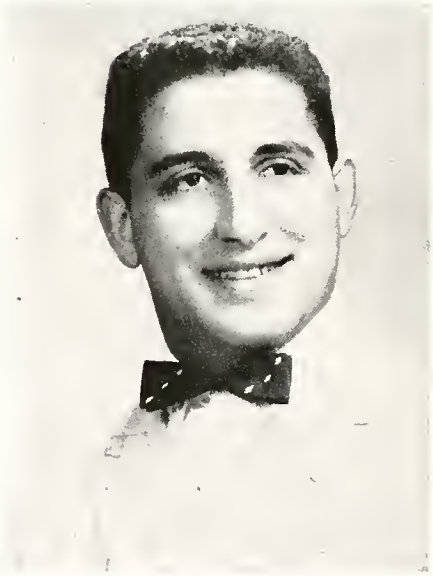
**Kelly P. Hemmert**
Butte, Montana
Petroleum

# *Juniors*

**Donald J. McMillan**
Butte, Montana
Petroleum

**Alec E. Lindquist**
Whitehall, Montana
Geology

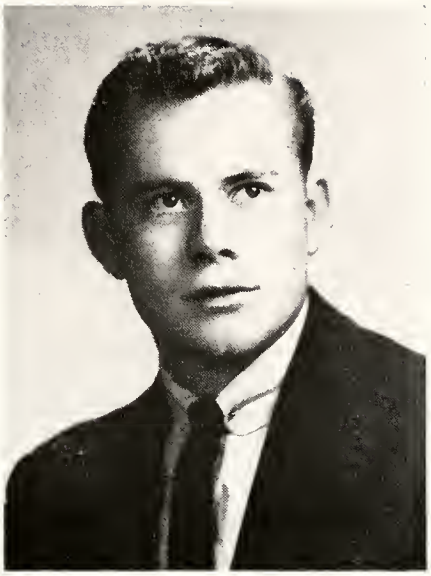
**David G. Rasmussen**
Missoula, Montana
Geology



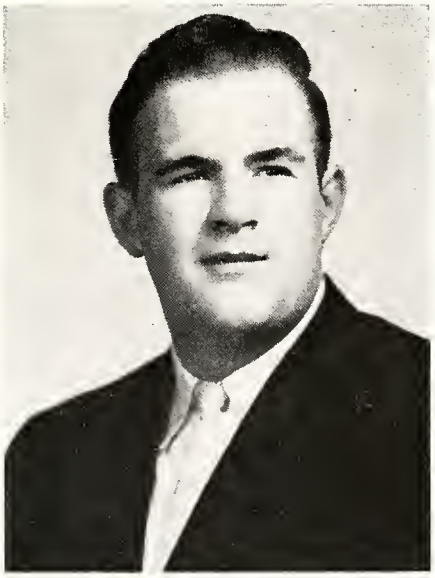
**Robert T. Rask**
Butte, Montana
Petroleum

# *Juniors*

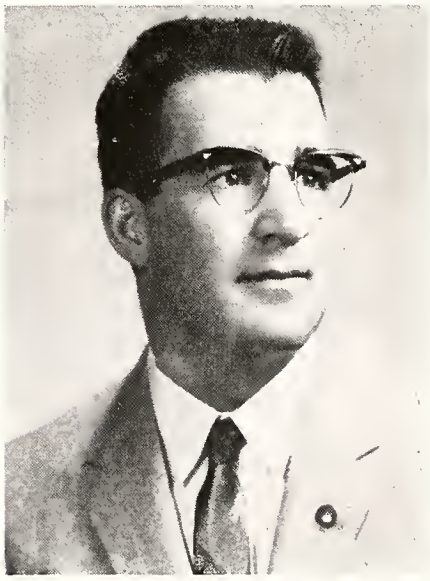
**Gary W. Riley**
Roundup, Montana
Petroleum



**M. Lloyd Smith**
Great Falls, Montana
Petroleum



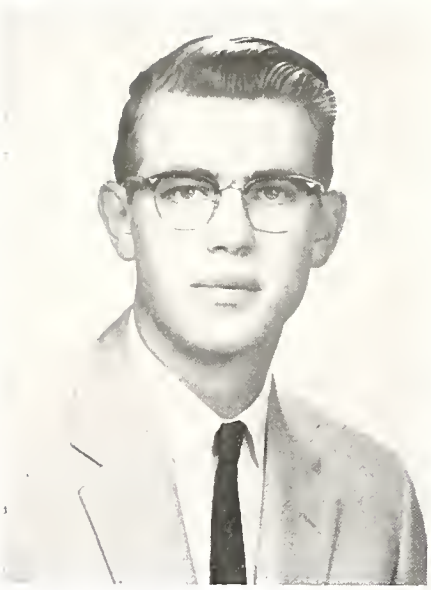
**James E. Thompson**
Butte, Montana
Metallurgy



**Robert R. Utter**
Eureka, Montana
Mining

# *Juniors*

**Richard R. Vincelette**
Billings, Montana
Geology



**Douglas H. Wadman**
Cut Bank, Montana
Petroleum

**J. M. Kahn**
Quetta, Pakistan
Mining

Popper . . . ?

Hard at work?

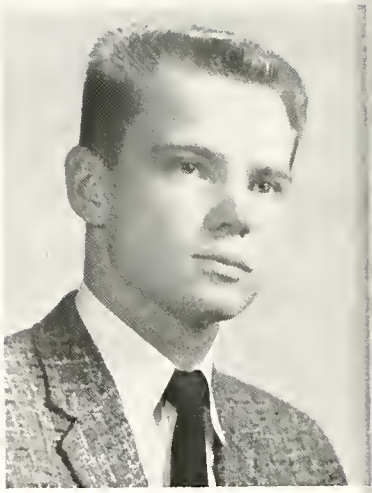
You have had
this in your
Mathematics . . . No?

EXIT
PHYSICS
LECTURE ROOM

*"Sorry . . . Time's up"*

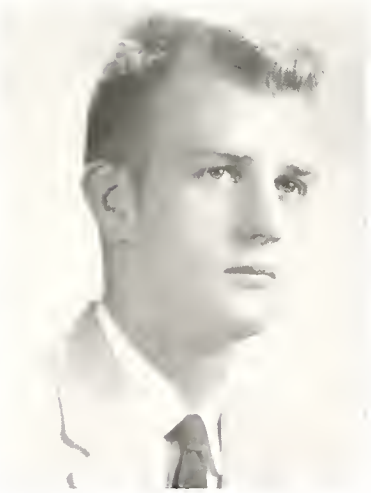
**Edwin L. Speelman**
Vice-President
Kalispell, Montana

**Arthur L. Boettcher**
President
Great Falls, Montana

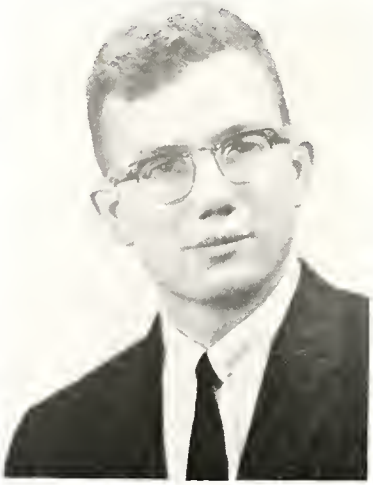


**Rodney W. Prellwitz**
Secretary-treasurer
Minneota, Minnesota

# *Sophomores*

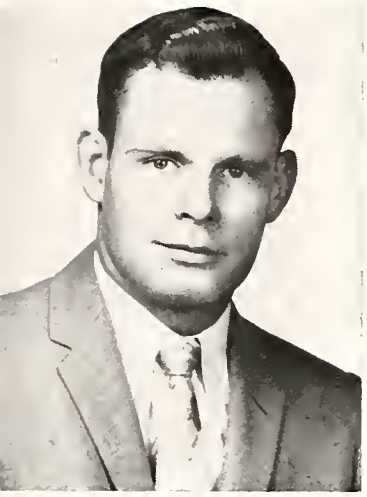


**Gay D. Kravik**
Delegate
Havre, Montana

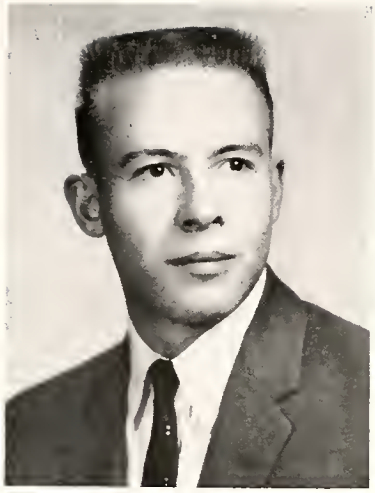


**David W. Baker**
Great Falls, Montana

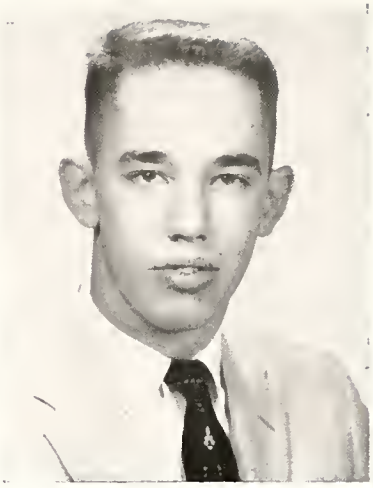
**Force F. Baney, Jr.**
Great Falls, Montana



**Melvin R. Bennett**
Deer Lodge, Montana

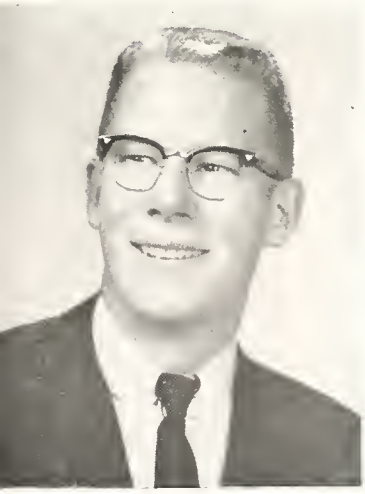


**Perry W. Bilyeu**
Wolf Point, Montana

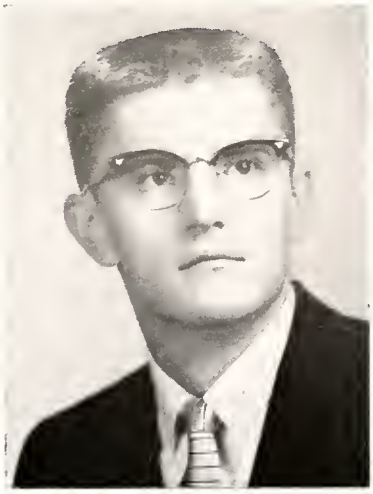


**Donald W. Bork**
La Grande, Oregon

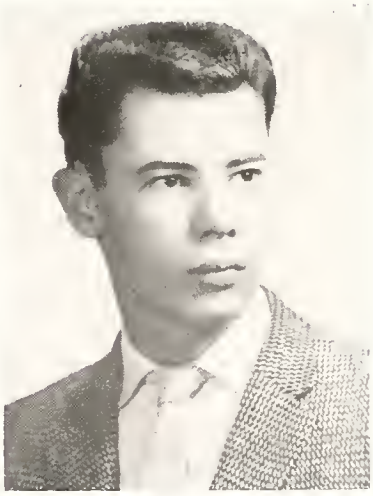
# *Sophomores*



**Dave P. Cadwell**
Lima, Peru



**Alexander L. Chaky**
New Westminster, B. C.



**Robert B. Donaldson**
Newington, Connecticut

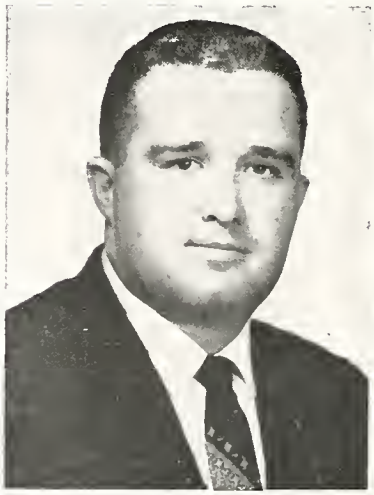
**K. Suzanne Dunlap**
Butte, Montana

**Arlene M. Donovon**
Butte, Montana

**Julia A. Dwyer**
Butte, Montana

# *Sophomores*

**Daniel W. Harrington**
Butte, Montana



**Richard A. Herndon**
Spokane, Washington

**William G. Hutton**
Fort Erie, Ontario

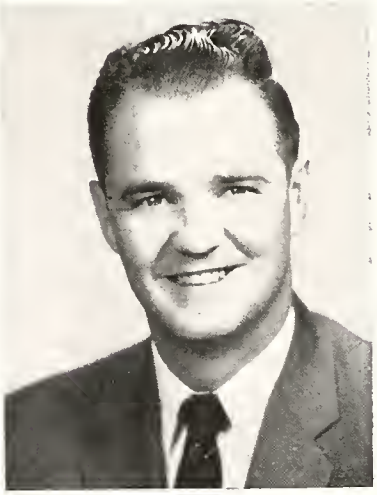
**James P. Kolesar**
Butte, Montana

**Leonard R. Judd**
Butte, Montana

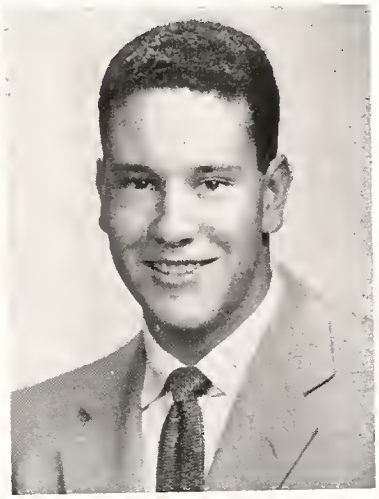
**Elizabeth M. McCallum**
McAllister, Montana

# *Sophomores*

**Sandra McGonigle**
Butte, Montana

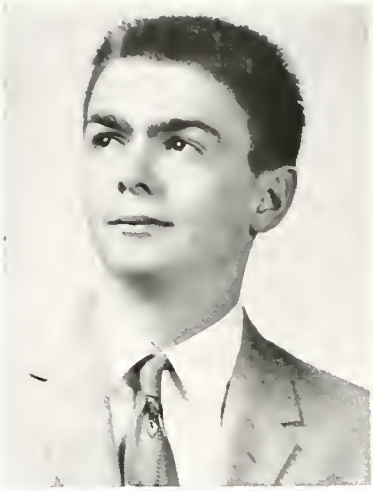


**James P. McLaughlin**
Roundup, Montana



**Malcolm A. McKinnon**
Great Falls, Montana

**Donald N. Peterson**
Butte, Montana

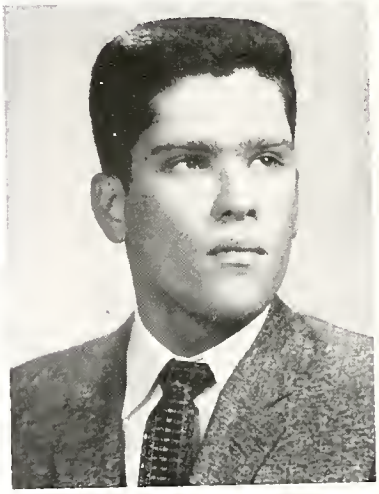


**Namon J. Nichols**
Whitehall, Montana

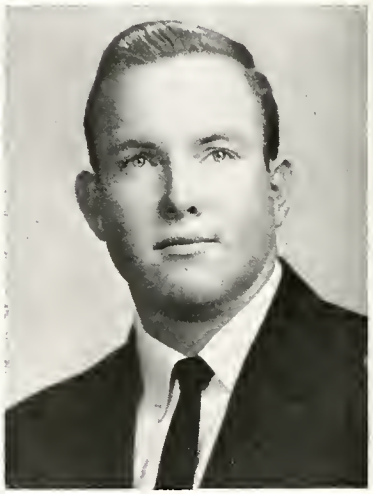
**Allen D. Rovig**
Kalispell, Montana

# *Sophomores*

**Dale W. Sawitke**
Eastlake, Ohio



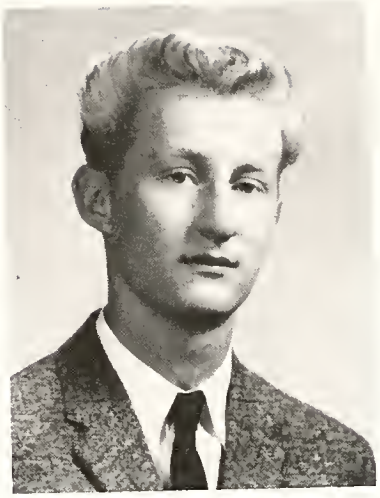
**Paul R. Schank**
Western Springs, Illinois



**Earl L. Sherron, Jr.**
Glendive, Montana

**William H. Thompson, Jr.**
Everett, Washington

**Billie E. Todd**
Butte, Montana



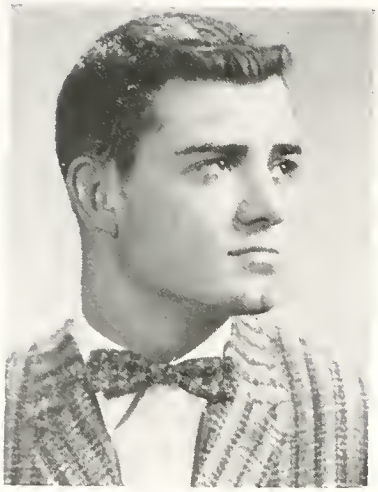
**Robert E. Warren**
Fort Benton, Montana

# *Sophomores*

Books to the Front!

*Guest Lecturer . . .*
Old Memories

**William W. Hoskins**
Secretary-treasurer
Butte, Montana

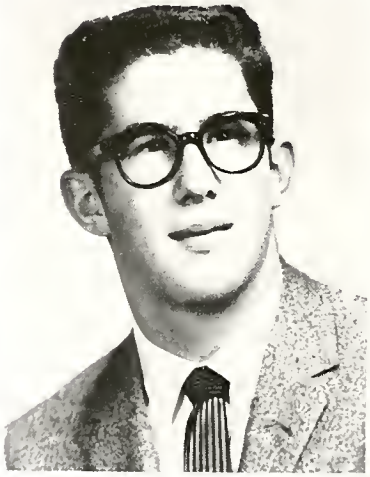


**Jack L. Weaver**
President
Trident, Montana

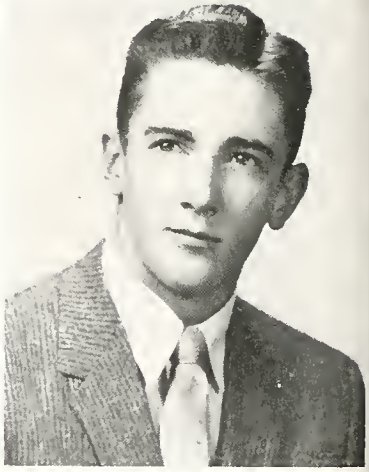
**William C. Pickard**
Delegate
Miles City, Montana

# *Freshmen*

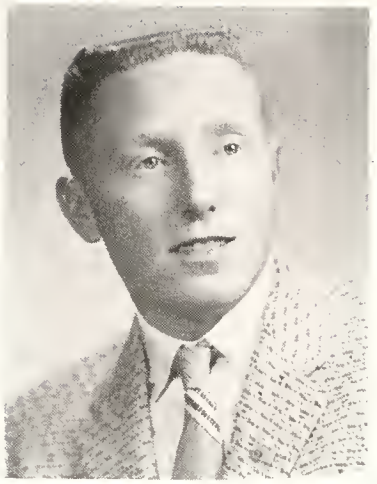
**John W. Bennett**
North Fork, Idaho



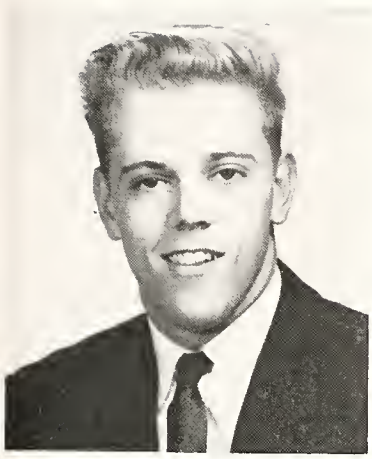
**Jerome J. Blake**
Henderson, Nevada



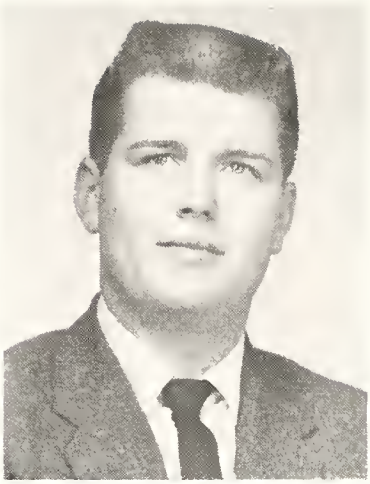
**Douglas A. Boehme**
Butte, Montana



**George M. Bronson**
Butte, Montana

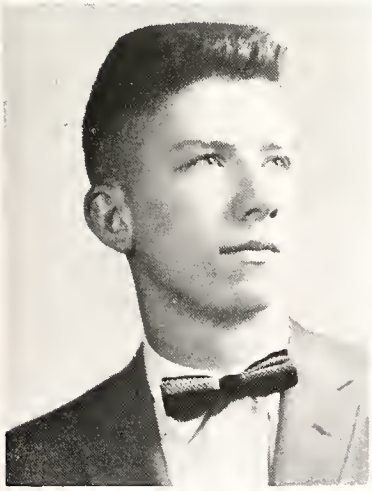


**Robert W. Boulter**
Butte, Montana

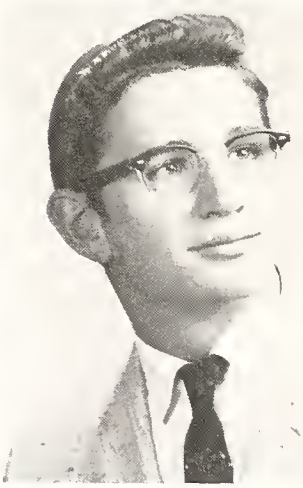


**Sydney W. Brown**
Nelson, British Columbia

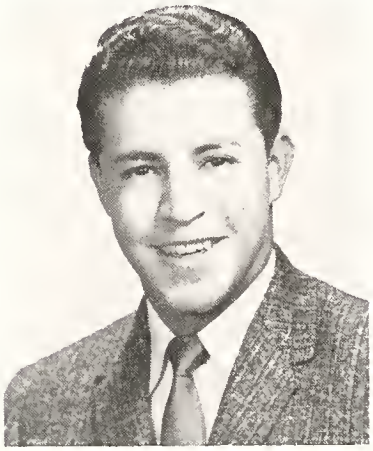
# *Freshmen*



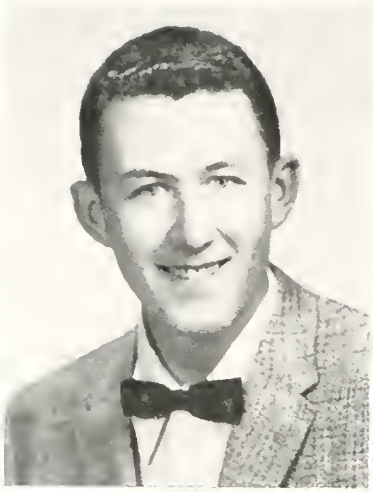
**William I. Burke**
Butte, Montana



**John J. Chor**
Anaconda, Montana



**Caesar J. Casarotto**
Quillota, Chile



**Charles O. Conlan**
Butte, Montana

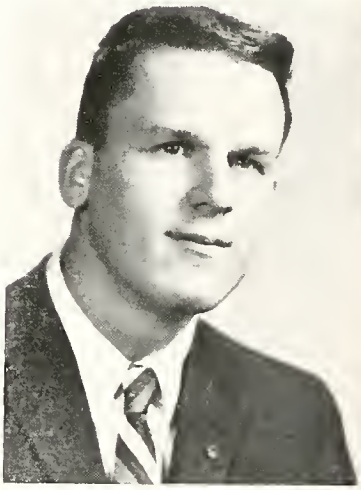
**Judith D. Delmoe**
Butte, Montana

**Roger E. Doherty**
Butte, Montana

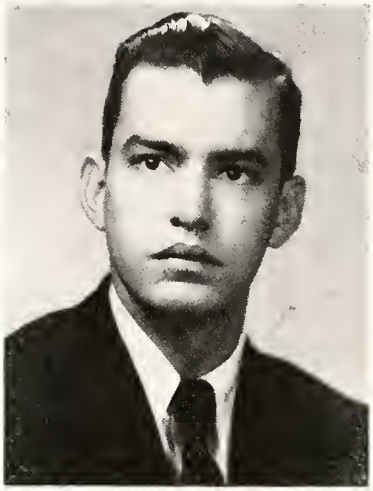
# *Freshmen*

**John E. Dowis**
Las Vegas, Nevada

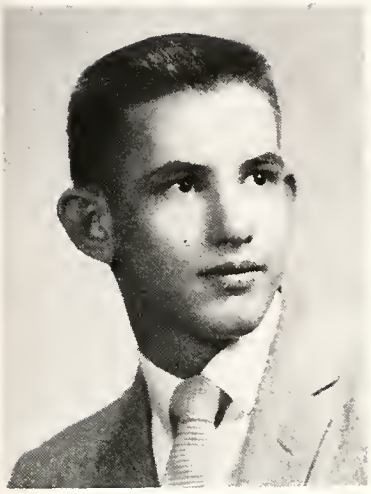
**John H. Dwyer**
Butte, Montana



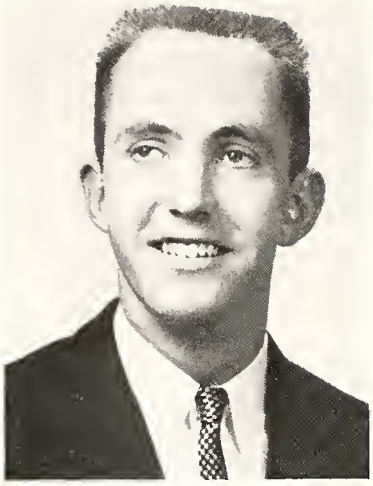
**Kenneth A. Fitzpatrick**
Butte, Montana



**Manuel E. Galup**
Lima, Peru

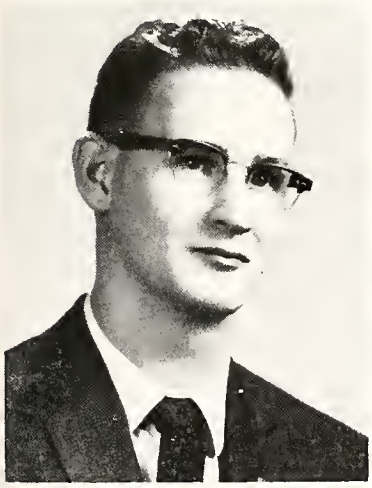


**Stephen W. Funk**
Polk, Nevada



**J. Michael Good**
Butte, Montana

# *Freshmen*

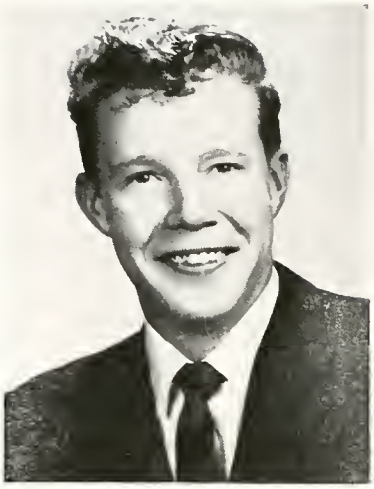


**H. David Greenberg**
Flin Flon, Manitoba

**Marvin F. Hash**
Butte, Montana

**Robert L. Hicks**
La Grande, Oregon

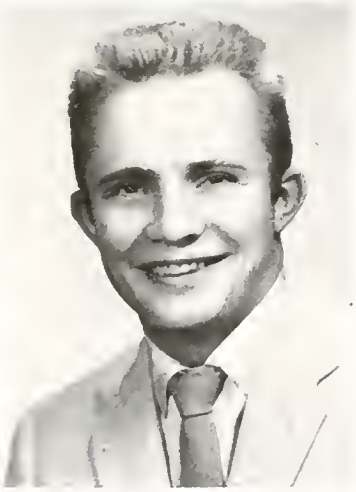
**T. Michael Hines**
Vallejo, California



**Terrance R. James**
Magrath, Alberta

**Robert E. Johnson**
Anaconda, Montana

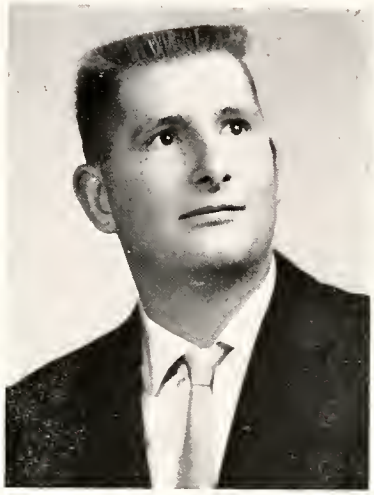
# *Freshmen*



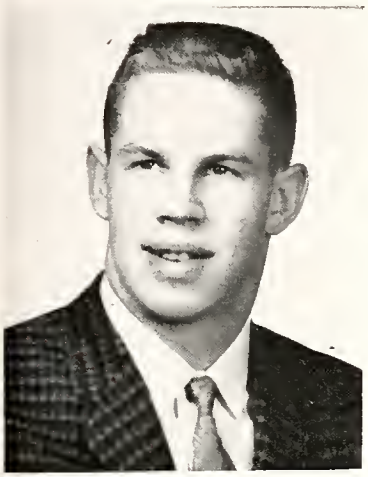
**Sigfred A. Johnson**
Anaconda, Montana

**Larry C. Katcher**
Flin Flon, Manitoba

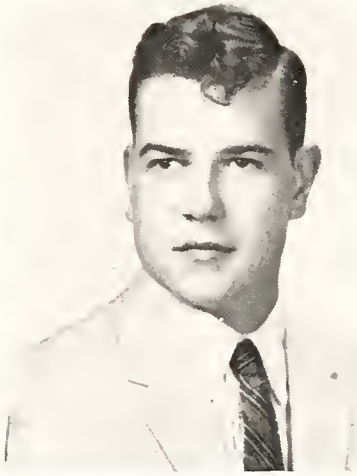
**Stephen A. Keddie**
Flin Flon, Manitoba



**Edward A. Kenison**
Dillon, Montana

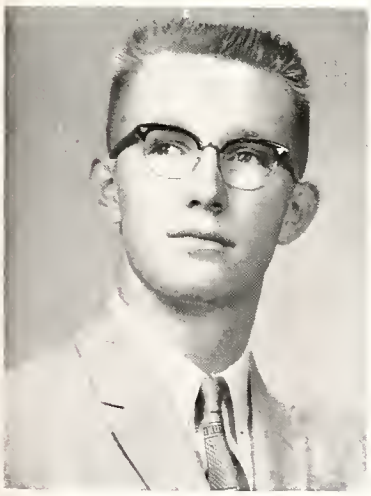


**Michael R. Keegan**
Spokane, Washington

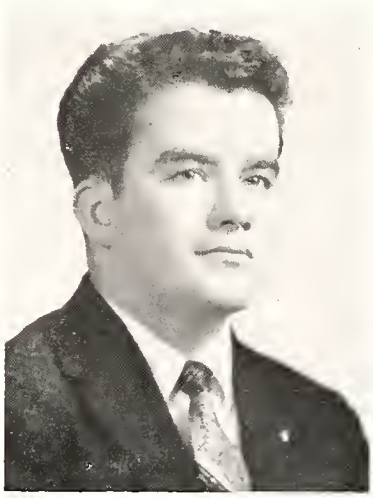


**William P. Kopp**
Rochester, New York

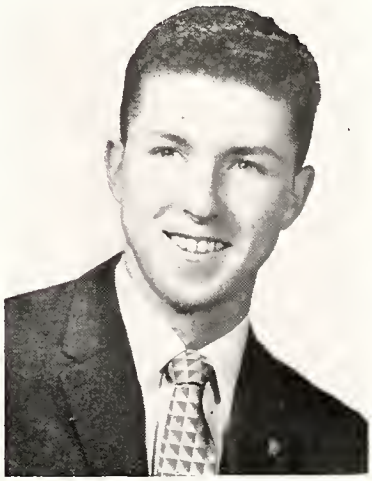
# *Freshmen*



**William R. Lane**
Three Forks, Montana

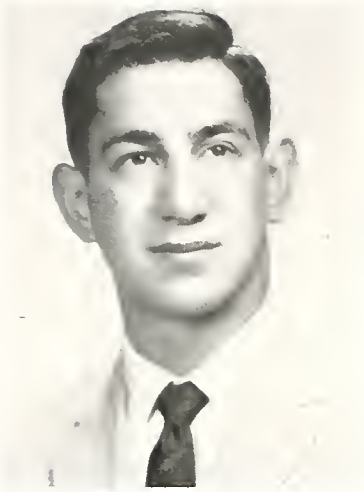


**Thomas J. LaVelle**
Butte, Montana

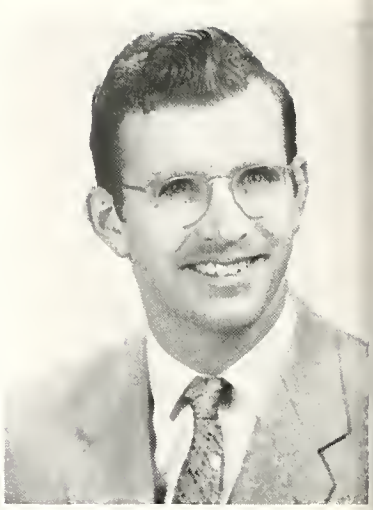


**Leroy R. Latimer**
Butte, Montana

**Sandra Maddock**
Butte, Montana



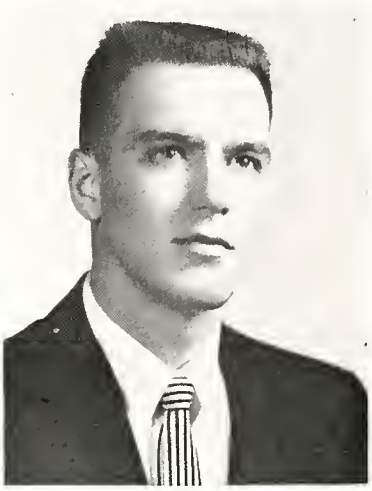
**Francis P. Lucon**
Butte, Montana



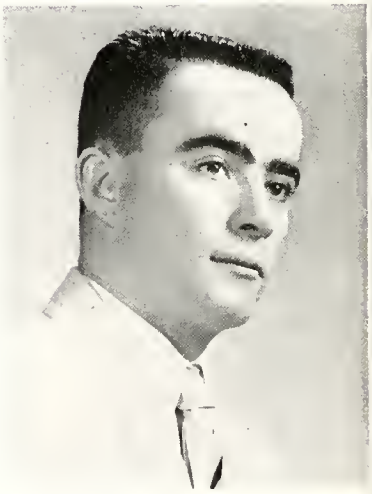
**Richard C. Makovsky**
Havre, Montana

# *Freshmen*

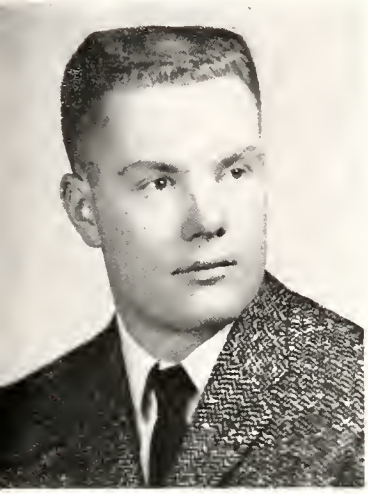
**Robert S. Martens**
Anaconda, Montana



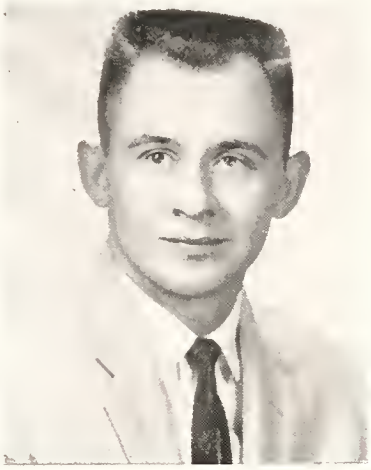
**Raymond J. Martinich**
Butte, Montana



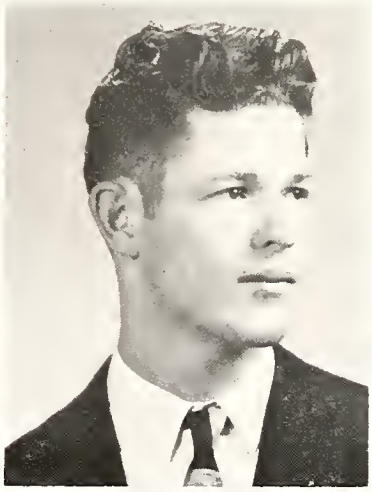
**Joseph P. McCarthy**
Butte, Montana



**Robert J. McCarthy**
Butte, Montana



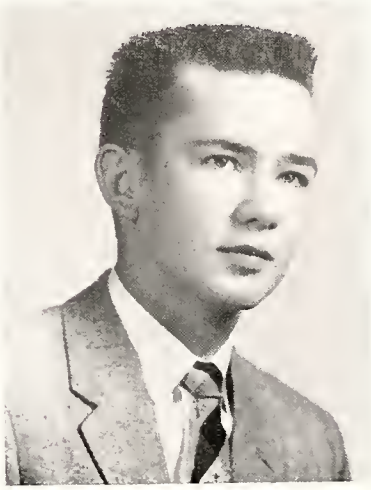
**Robert G. Mihelish**
Butte, Montana



**Stanley R. Mulherin**
San Lorenzo, California

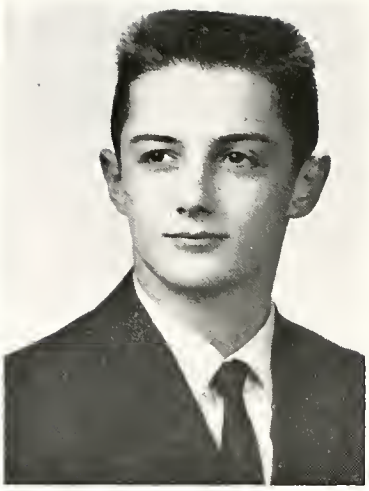
# *Freshmen*

**Manuel J. Munoz**
Antofagasta, Chile

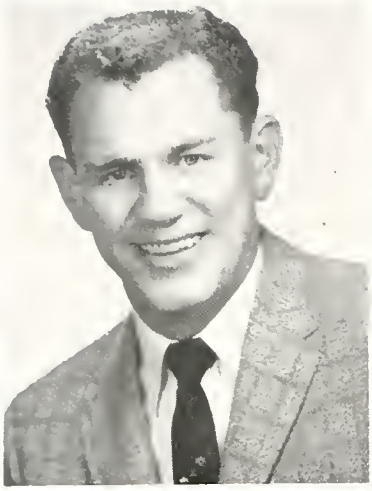


**Robert D. Newman**
Elliston, Montana

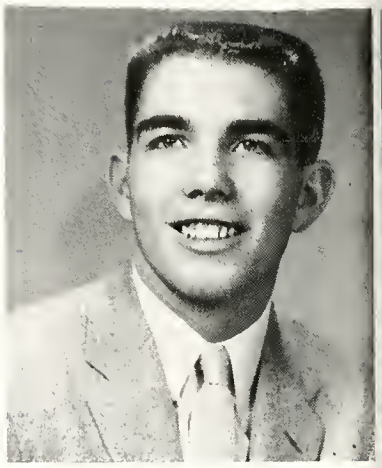
**James O'Brien**
Butte, Montana



**John K. Palmer**
New Haven, Connecticut

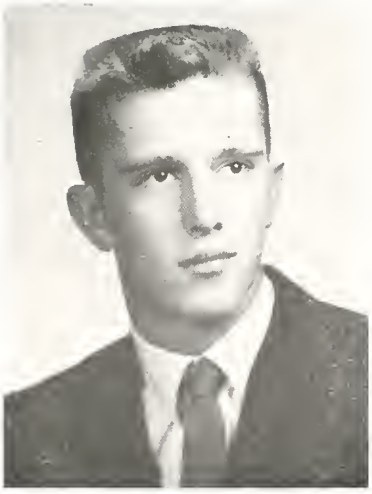


**Thomas R. Odland**
Butte, Montana



**Frank E. Panisko**
Butte, Montana

# *Freshmen*



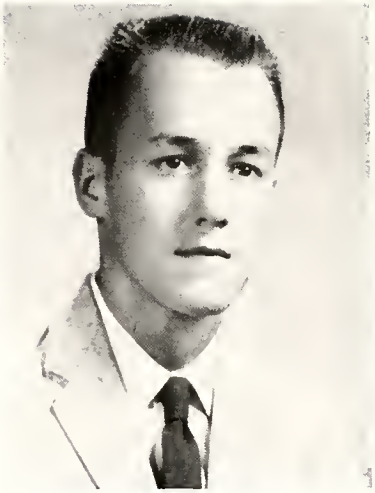
**J. Steve Ralls**
Radersburg, Montana

**Darrell G. Reid**
Calgary, Alberta

**David H. Rife**
Miles City, Montana

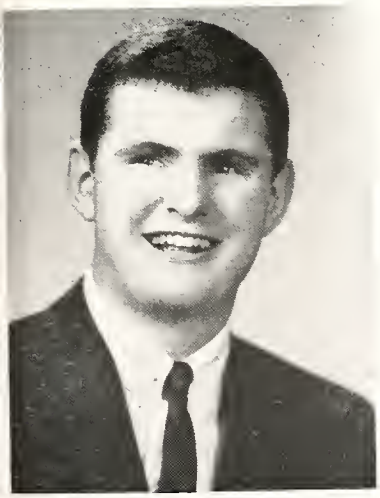
**Lawrence N. Schuth**
Spencerport, New York

**John C. Schulhauser**
Cupar, Saskatchewan

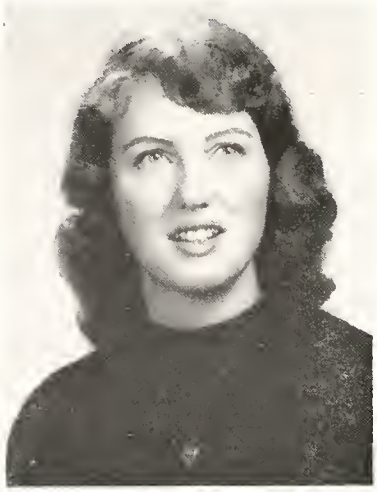


**James Schwartzenberger**
Butte, Montana

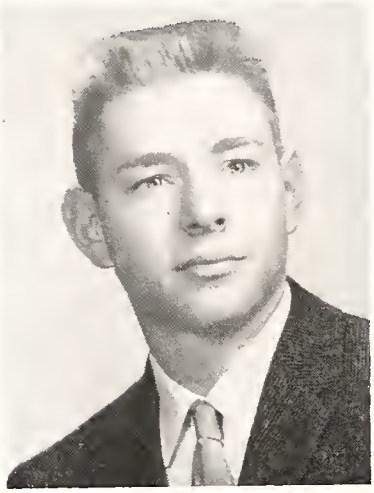
# *Freshmen*



**Timothy D. Sheehan**
Butte, Montana

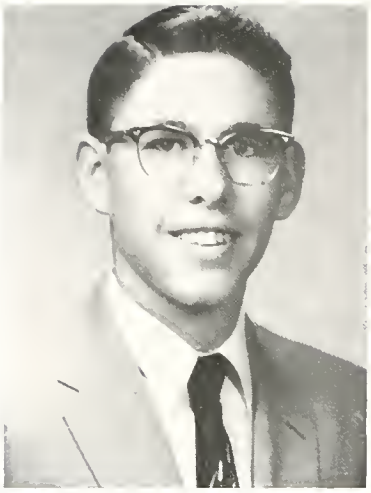


**Jeannette M. Sigurdson**
Butte, Montana

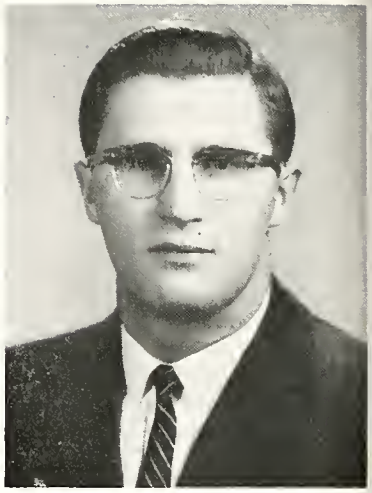


**Edward F. Shumaker**
Arlington Heights, Illinois

**Ernest A. Stroup**
Butte, Montana

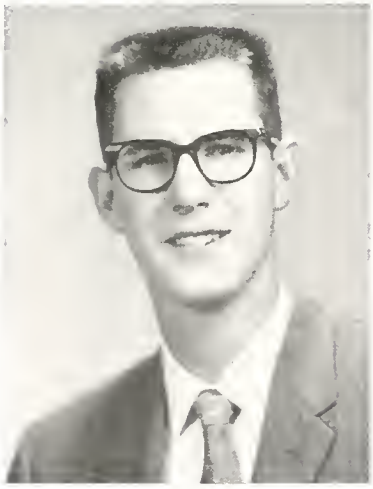


**Manley K. Stallings**
Anaconda, Montana

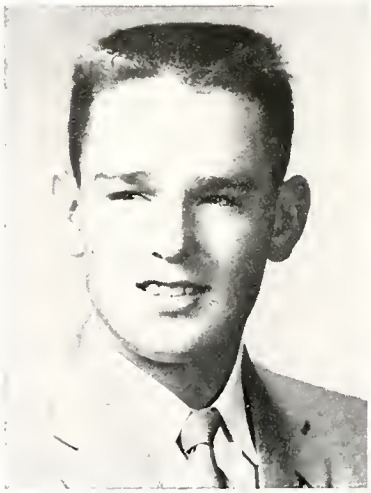


**Garry A. Swanson**
Taber, Alberta

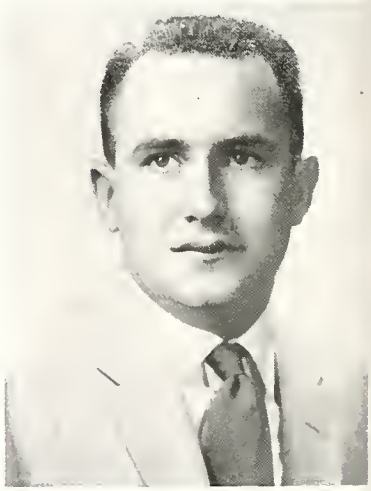
# *Freshmen*



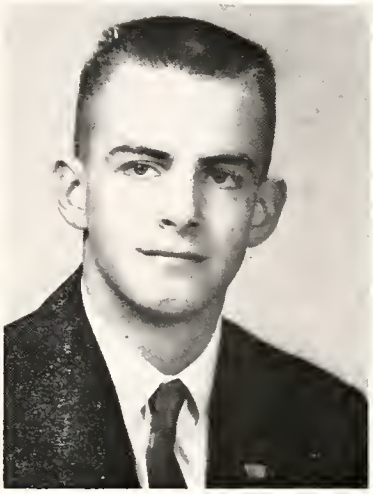
**Henry E. Thompson**
Tioga, North Dakota



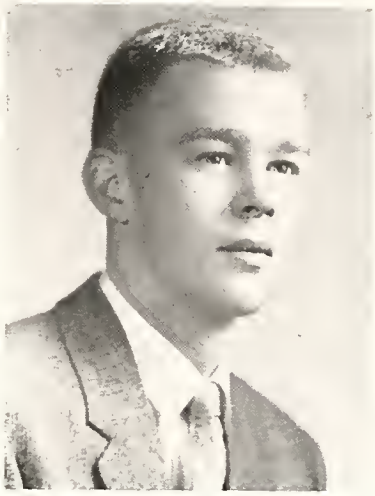
**William C. Tiddy**
Butte, Montana



**James R. Vercella**
Billings, Montana



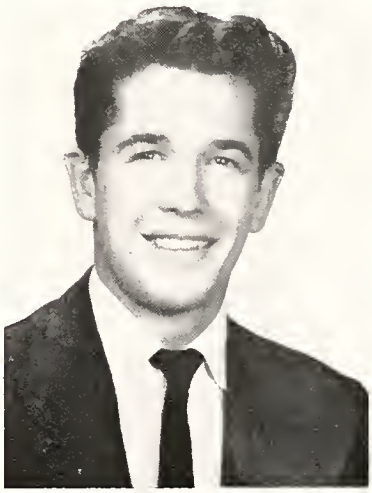
**George L. Vivian**
Butte, Montana



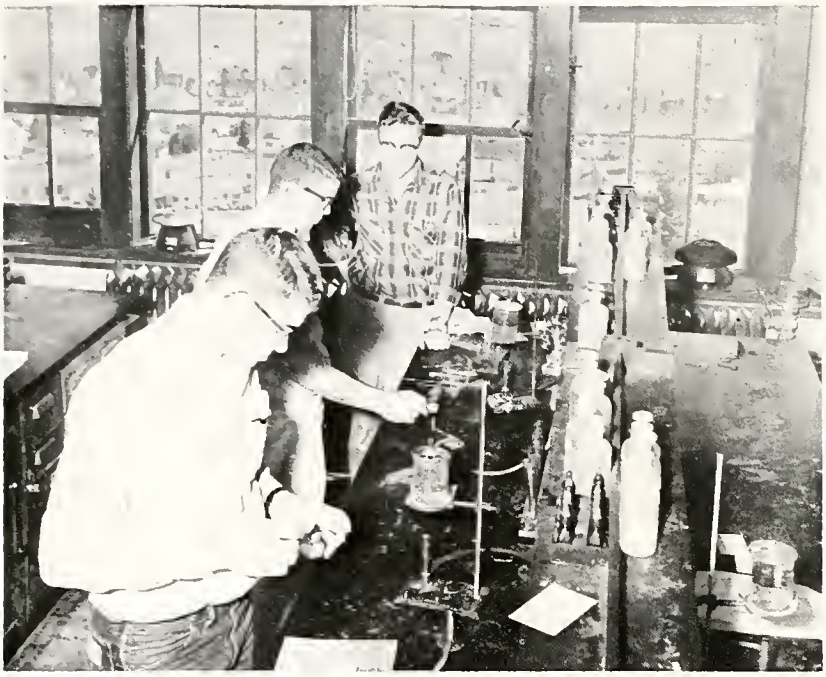
**William C. Waters**
Regina, Saskatchewan

# *Freshmen*

**Gary A. Wendel**
Butte, Montana



**Allen S. Winters**
Port-Au-Prince, Haiti



Now what, George?

Do you think your old man will ever graduate?

Aw—don't worry about it; let's look at the Activities Section

# ACTIVITIES

# *Student Council*

From left to right: Richard Vincelette, Delegate; Gus Coolidge, Secretary; Donald Roberts, Delegate; Robert Wylie, President; Richard Roberts, Vice-president; and Richard Banghart, Student Manager.

The Student Council, composed of the officers and executive committee of the Associated Students of Montana School of Mines, functions as a coordinating organization between faculty and students. It has the responsibility of general supervision over extra-curricular campus activities, the allotment of student funds, the preservation of campus traditions, and the promotion of student affairs.

Projects which this year's council helped complete were the Student Health Insurance plan, and the allocation of rooms in the Student Union Building. The organization of M-Day activities is an annual enterprise of the council.

# *Who's Who*

Left to right: Lilburn Lueck, George Maxwell, Alfred Trimble, Donald Corson, Richard Roberts, Robert Wylie.

The above six were the Montana School of Mines electees to "Who's Who Among Students in American Colleges and Universities." Candidates for this honor are selected from seniors who are eligible for graduation in June. The method of selection is that the heads of the degree-granting departments, the registrar, and the student body president are asked to submit to the Dean names of seniors who they believe are qualified for nomination. Those receiving the highest number of votes are nominated.

In order to be considered for this honor a student must show evidence of the following qualities: Excellence and sincerity of scholarship, leadership and participation in extracurricular and academic activities, citizenship and service to the school, and promise of future usefulness to business and society.

# *Amplifier Staff*

Left to right: R. Herndon, J. Bennett, S. Maddock, J. McLaughlin, S. Dunlap, M. Bennett, J. Trythall, R. Coppage.

The **Amplifier** is a bimonthly student newspaper which is compiled by students enrolled in publications. It provides a means of keeping all the students and faculty informed of the latest news on the campus.

The newspaper has been quite successful this year, and plays a large part in campus life. Technical guidance is provided by Professor Albertson, Mrs. McBride, and Miss Satter.

In addition to the **Amplifier,** the staff also publishes the **De Re Metallica.** This monthly magazine serves as a means of communication between the campus and the public. It contains student, alumni, and faculty announcements concerning MSM activities. Articles are also written concerning the mineral industry.

# *Anderson-Carlisle Society*

FRONT ROW: Prof. Stolz, D. Malyevac, J. Wallace, D. Corson, W. Enderlin, A. Rule, R. Wiley, A. Walkup. SECOND ROW: W. Painter, R. Utter, G. Ziesing, D. Rasmussen, R. Hoy, K. Hemmert, J. McMillan, R. Rask. BACK ROW: G. Trimble, D. Mahagin, J. Donovan, E. Sherron, P. Sweeney, G. Parker, G. Riley, D. Rovig.

The Anderson-Carlisle Society, named for the two School of Mines students who lost their lives in the service during World War I, was organized in 1922, and qualified as a Student Chapter of the American Institute of Mining, Metallurgical, and Petroleum Engineers in 1934. One requirement for membership in the society is student membership in the A. I. M. E.

The society holds monthly meetings, which feature lectures by experienced technical men in the mining, metallurgical, and petroleum fields. For the past three years, the society has sponsored an annual Engineering Day program, at which time open-house is held on the campus, and the public is invited to examine the facilities afforded to Mines students.

# *Circle K Club*

FRONT ROW: K. Fitzpatrick, G. Bronson, L. Latimer, J. Thompson. SECOND ROW: J. Jaksha, L. Judd, J. O'Brien, F. Lucon. BACK ROW: R. Doherty, D. Boehme, B. Newman, G. Bailey.

**OFFICERS**

President - - - - - Ken Fitzpatrick
Vice-President - - - George Bronson
Secretary - - - - - Leroy Latimer
Treasurer - - - - Don Giacomino
Directors - John Jaksha, Francis Lucon, J. Thompson, Bob Newman

The Montana School of Mines Circle K Club was organized in October, 1958. Circle K, sponsored by Kiwanis International, is a service organization which serves at a college level. It is a character-building group which offers service to the school and to the community.

The Circle K Club is not a secret organization. It avoids cliques and its meetings are open to the public at all times. In addition to rendering unlimited service to its community, Circle K provides college men with the opportunities to develop leadership, good citizenship, education and fellowship.

# *Coed Club*

FRONT ROW: S. Maddock, E. McCallum, J. Trythall, S. McGonigle, B. Todd, J. Delmoe. BACK ROW: L. Lewis, A. Donovan, J. Dwyer, S. Dunlap, J. Sigurdson, P. McIntosh, B. Dodd.

**OFFICERS**

Co-Presidents - - Jacqueline Trythall and Sandra McGonigle
Secretary-Treasurer - - - - - - - - Suzanne Dunlap
Adviser - - - - - - - - - - - - - - Mrs. L. L. McBride

The Coed Club is an organization composed of the women of the Montana School of Mines. This active organization, besides participating in the school traditional activities such as M-Day, sponsors many of the social events including dances, swimming parties, coffee hours, and teas. The school cheerleaders are also chosen from this group. This year the Coeds sponsored a coffee-shop in a room provided in the Mill building. This spot proved a relaxing haven for many of the Mines students.

# *Copper Guards*

FRONT ROW: R. Prellwitz, J. Gardner, L. Judd, C. McLean, A. Boettcher. BACK ROW: G. Kravik, M. Poad, E. Speelman, F. Baney, J. McLaughlin.

**OFFICERS**

Duke - - - - - - - - - Rodney Prellwitz
Chancellor - - - - - - - Arthur Boettcher
Scribe - - - - - - - - - - Gay Kravik
Recorder - - - - - - - - Donald Peterson
Faculty Adviser - - Prof. J. G. McCaslin

The Copper Guard was first organized on the Montana School of Mines campus in the spring of 1935. In 1937, the Copper Guard was admitted to the Order of Intercollegiate Knights, the national honorary sophomore service organization, of which they were members until the fall of 1958.

The Copper Guard is a service organization. Acting in this capacity, the members perform such duties as selling tickets at athletic contests and ushering at school events. In addition, they serve the picnic lunch and sponsor the dance during M-Day. At Christmas time, they decorate the trees in front of the dorm.

To raise funds, the Copper Guard maintains pop machines in the Coed Coffee Shop and Main Hall, and sells student movie discount tickets.

New members are chosen each year by the acting Copper Guards from a list of freshman students recommended by the faculty.

# *Debate*

FRONT ROW: B. Burke, J. M. Good, H. Raza.
BACK ROW: J. O'Brien, S. Dunlap.

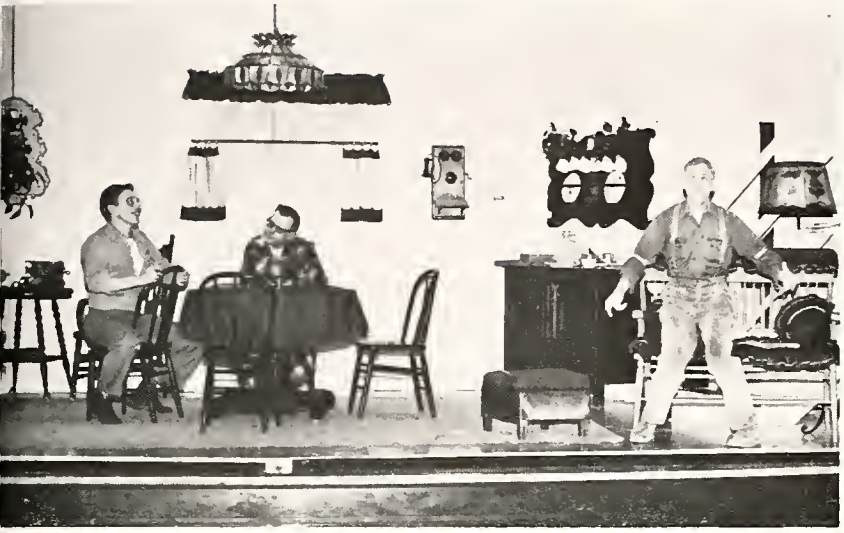
The Montana School of Mines forensic squad has an old and impressive record. In the last decade, it has been a frequent winner of the Montana Intercollegiate Forensics Meet. The squad first rose to prominence under the directorship of Walter T. Scott, now Professor Emeritus. Since that time it has been counted as keen competition, both inside and outside the state. Debate Captain this year is Dick Vincelette, and the Faculty Advisor is Professor Albertson.

# *Dramatics*

Right to left: Alex Mondlak, Earl Sherron, Dave Cadwell, Peter Sweeney, Judy Delmoe, Sandra Maddock, Dave Malyevac, Ross Wayment, Albert Rule, George Maxwell, Robert Wylie, Johannes Dreyer, and Albert Walkup.

This year the MSM drama club presented **The Rainmaker,** a delightful comedy in three acts, by N. Richard Nash. The play takes place at the time of a devastating drought in the midwest. During this time there appears a roguish-looking character who promises to bring rain for one hundred dollars. He not only succeeds in this, but also brings hope to a woman's heart. She, in turn, chooses between the romantic rainmaker and the deputy sheriff File who is afraid to face the future because of his unfortunate past experiences. She convinces File that some things are permanent and finds a long-sought-after love. Love came and so did the rain.

# *Dramatics*



" . . . and all by myself
I said 'Whoa'!"

" . . . that ain't no fittin'
name for a dog."

" . . . and if you think
you are, YOU WILL
BE."

# *International Club*

FRONT ROW: O. Macha, M. Mahtab, C. Casarotto, D. Cadwell, M. Munoz, D. Estay, M. Galup, J. Struque. BACK ROW: G. Sanjurjo-Vela, J. Alvi, R. Azocar, E. Saeed, J. Sigurdson, J. Chellew, J. Arevalo, J. Johnson, M. Smith.

| OFFICERS | First Semester | Second Semester |
|---|---|---|
| President | Esfandiar Saeed | Ricard Azocar |
| Vice-President | Ricardo Azocar | Javaid Alvi |
| Recording Secretary | Jeannette Sigurdson | Jeannette Sigurdson |
| Corresponding Secretary | Dave Cadwell | Jeannette Sigurdson |
| Treasurer | Alex Mondlak | Alex Mondlak |
| Faculty Adviser | Professor R. I. Smith | |

The International Club was organized during the second semester of the 1956-1957 school year in order to promote friendly relations among the students of this school regardless of race, color or creed. Students from many of the countries of North and South America, as well as South Africa, Arabia, India, Iran, Pakistan, and Sweden are members of the club.

In addition to its regular meetings, the club holds several meetings which are open to the public. These provide an opportunity for the public to become acquainted with the members, and to become more familiar with the cultures of the various countries represented.

In the spring, the club sponsors an all-school dance.

# *M Club*

FRONT ROW: Al Walkup, Dick Banghart, and Pete Atkinson. BACK ROW: Ken Erickson, Kelly Hemmert, David Del Paggio, Cam Brown, Jerry Yopps, Jerry Blake, Mike Hines, Dan Trbovich, and Brad Bilyeu.

The Montana School of Mines M-Club is an organization of all monogram winners in major sports. In order to remain in the club, the member must attend at least sixty percent of the meetings. The purpose of the club is to organize all major monogram winners who have excelled in football, basketball, baseball, track, and hockey. Its officers are elected for a one-year term. All candidates must have at least a "C" average in order to hold office in the club. The M-Club sponsors a school picnic and sells refreshments at sports events.

# *Mineral Club*

FRONT ROW: R. Utter, D. Cadwell, L. Lewis, J. Delmoe, S. Maddock, D. Rasmussen, J. Bennett, D. Rovig. BACK ROW: B. Hutton, J. Chor, R. Martens, L. Schuth, B. Copp, D. Trbovich, B. Johnson, S. Mulherin, R. Makovsky.

| OFFICERS | First Semester | Second Semester |
|---|---|---|
| President - - - - | Dave Rasmussen | Dave Rasmussen |
| Vice-President - - | John Bennett | John Bennett |
| Treasurer - - - | Frank Cassidy | Dan Rovig |
| Adviser - - - - | Dr. F. N. Earll | |

The Mineral Club gives students the opportunity to participate in organized geology field trips in the Butte area. Throughout the academic year, the club sponsors many field trips and maintains a well-equipped lapidary laboratory for the use of its members. The "rock-hounds" also exhibit their lapidary work and equipment during the annual Engineering Days.

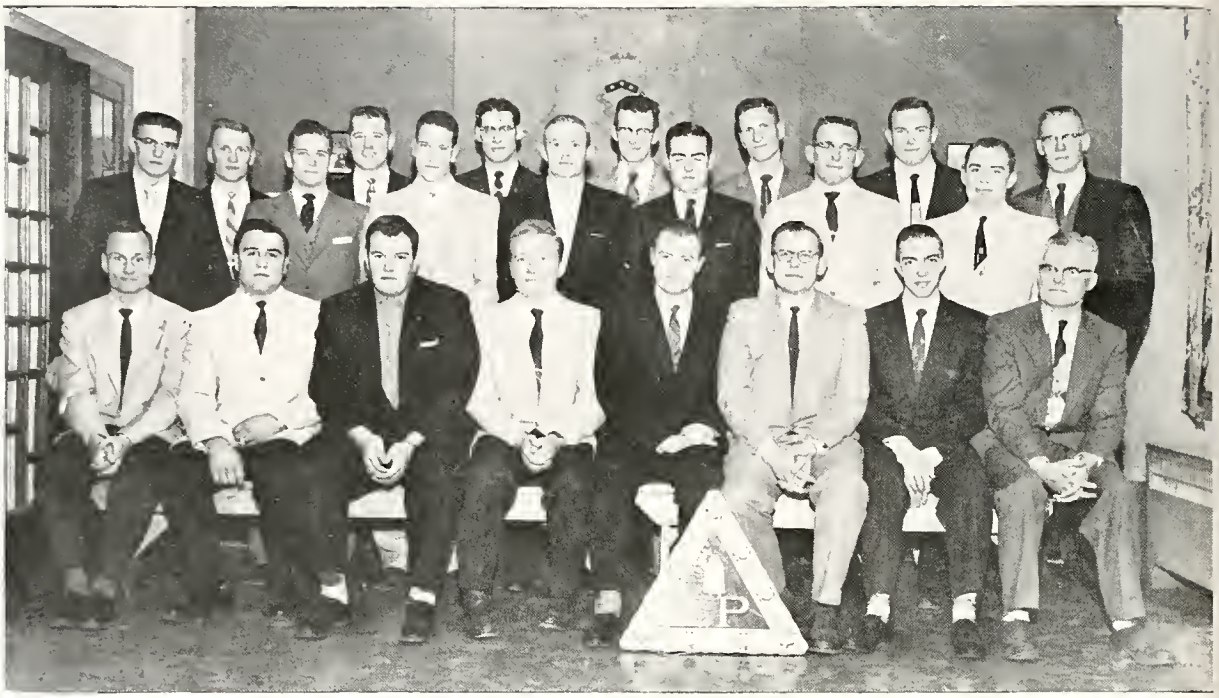
# *Mineral Club*

We'll go anywhere!

Made it!

I'm working this area!

# *Sigma Rho*



FRONT ROW: Prof. Cox, K. Hemmert, D. Rovig, D. Rasmussen, R. Hoy, A. Rule, D. Malyevac, Prof. Laity. SECOND ROW: A. Chaky, J. Chellew, M. McKinnon, D. Coppage, R. Azocar, G. Maxwell, A. Walkup. BACK ROW: C. Plate, G. Trimble, G. Riley, P. Sweeney, J. Dreyer, F. Sherron, D. Cadwell.

| OFFICERS | First Semester | Second Semester |
|---|---|---|
| Archon - - - - | Robert Hoy | Robert Hoy |
| Vice-Archon - - | Peter Sweeney | Dave Rasmussen |
| Secretary - - - | Johannes Dreyer | Kelly Hemmert |
| Scribe - - - - - | Albert Walkup | Dave Malyevac |
| Treasurer - - - | Albert Rule | Albert Rule |
| Sgt.-at-Arms - - | Richard Coppage | Dan Rovig |
| Advisor - - - - | Professor Ralph I. Smith | |

The Sigma Rho Fraternity is a professional mining and metallurgical fraternity, whose members are active in all fields of the mineral industry. The Delta Chapter of Sigma Rho was granted a charter in 1927, and has since functioned as a regular part of the Montana School of Mines.

Annual affairs of the fraternity include a pledge dinner, Christmas party and dance, initiation dinner-dance, senior dinner-party, and various smaller parties and get-togethers throughout the year. Speakers of professional status in the mineral industry are invited to speak periodically before the fraternity.

Plans for a fraternity house have been made, and a house fund has been started for that purpose.

# *Sigma Rho*

Country Club
Initiation
Dance

Coppage
in a
rare pose

Parker
dealt
again

# *Theta Tau*

FRONT ROW: R. Rask, J. Bato, A. Kerr, G. Coolidge, W. Painter, D. Roberts, W. Enderlin. SECOND ROW: G. Grandy, D. Wadman, R. Prellwitz, K. Erickson, D. Cushing, D. Herndon, G. Cadwell, G. Ziesing, M. Maddocks, Prof. Stolz. BACK ROW: L. Judd, R. Vincelette, A. Boettcher, T. Johnson, P. Van Alstine, J. Thompson, R. Byrne, Prof. McCaslin.

| OFFICERS | First Semester | Second Semester |
|---|---|---|
| Regent | Gus Coolidge | Harvey Hannah |
| Vice-Regent | Robert Wylie | Dave Cushing |
| Scribe | John Hunter | Jim Thompson |
| Treasurer | Alan Kerr | Richard Vincelette |
| Corresponding Sec. | William Painter | Douglas Wadman |
| Adviser | Professor D. H. Harnish | |

Theta Tau is specifically a professional fraternity with an interest in pursuance of engineering in its several branches. Theta Tau offers a program which appeals alike to the undergraduate and the alumnus. By the maintenance of active chapters, the fraternity can most effectively aid in developing young engineers. When student days are ended, it helps them to bridge the chasm between the warm, familiar campus life and the world of business and commerce.

# *Theta Tau*

People are
no damn good!

P - chem
you say?

Applied
Electricity

# *Student Wives*

FRONT ROW: Mrs. Donovan, Mrs. Kelly, Mrs. Hoy, Mrs. McLaughlin, Mrs. Vivian, Mrs. Erickson, Mrs. Mondlak, Mrs. Zipperian. SECOND ROW: Mrs. Dreyer, Mrs. Trimble, Mrs. Enderlin, Mrs. Wallace, Mrs. Maxwell, Mrs. Mock, Mrs. Byrne, Mrs. Pickard, Mrs. Banghart, Mrs. Wylie, Mrs. Coolidge, Mrs. Wayment. BACK ROW: Mrs. Smith, Mrs. Plate, Mrs. Maddocks, Mrs. Mahagin, Mrs. Bennett, Mrs. Greely, Mrs. Hannah, Mrs. Bilyeu, Mrs. Erb, Mrs. Rask.

| OFFICERS | First Semester | Second Semester |
|---|---|---|
| President - - - - | Mrs. W. I. Enderlin | Mrs. R. Hoy |
| Vice-President - - | Mrs. M. L. Smith | Mrs. J. McLaughlin |
| Secretary - - - | Mrs. J. P. Hunter | Mrs. J. Donovan |
| Treasurer - - - - | Mrs. G. M. Maxwell | Mrs. G. Vivian |
| Social Corres. Sec. - | Mrs. E. J. Erickson | Mrs. Z. Kelly |
| Advisors - - - - | Mrs. E. G. Koch, Mrs. W. T. Scott, Mrs. W. A. Vine, Mrs. R. I. Smith, and Mrs. J. G. McCaslin. | |

The Student Wives organization meets on the second and fourth Wednesday of every month. The purpose of the club is to provide a means whereby all the student wives may become acquainted. The programs include talks and entertainment. During the year the club sponsors various teas, raffles, and bake sales, in order to raise money to expand their activities. The officers are chosen during the first meeting of each semester.

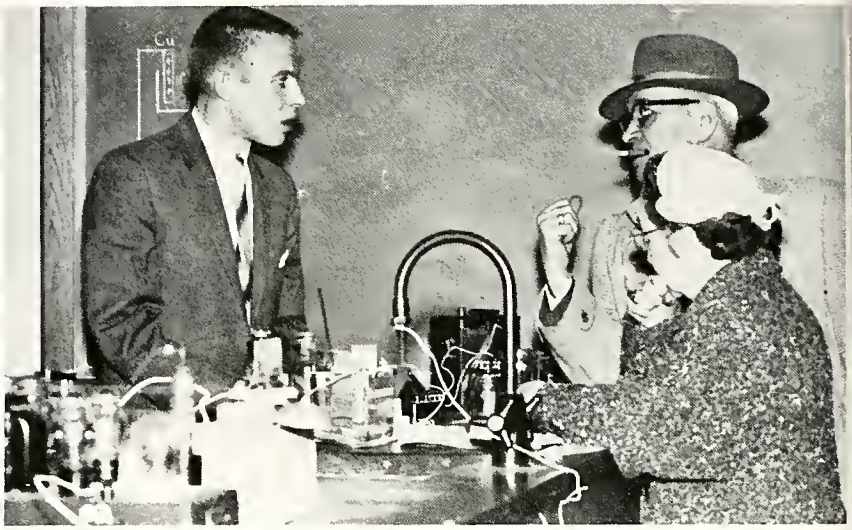
# *E-Day*

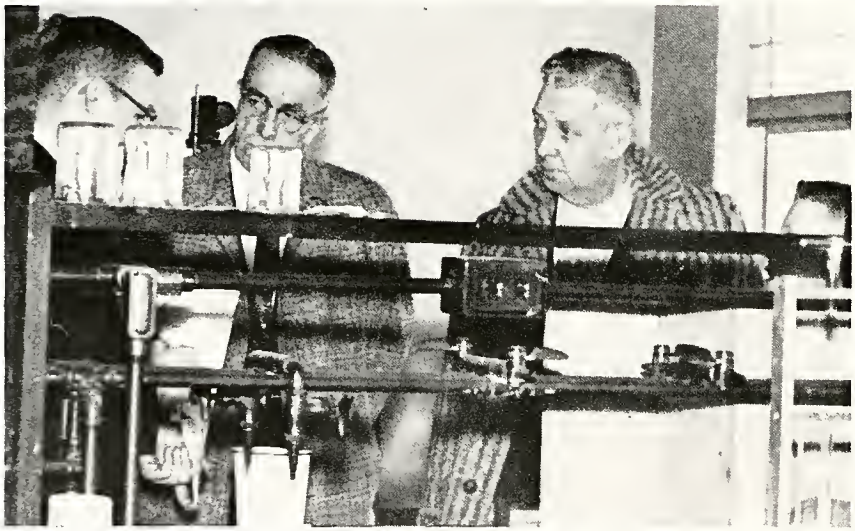
PLANNING BOARD, left to right: Walter Enderlin, Claud Pickard, Dave Malyevac, Don Corson, Gus Stolz, and Jim Wallace.

E-Day, which was held on March 7 and 8, is sponsored by the Anderson-Carlisle Society and is undertaken by the entire student body. Its purpose is to acquaint the public of Butte and the surrounding communities with the type of education and professional background that the Montana School of Mines offers. Displays and lectures are utilized to depict the functions of the various departments.

# *E-Day*

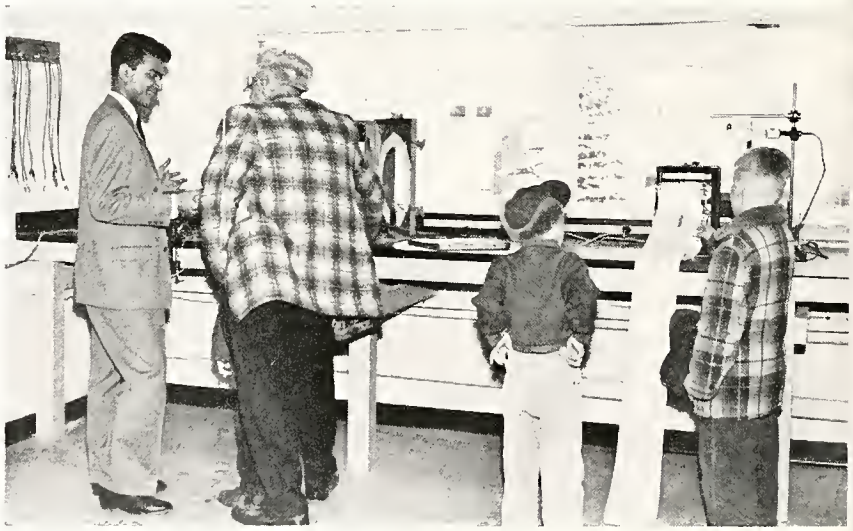
Physics





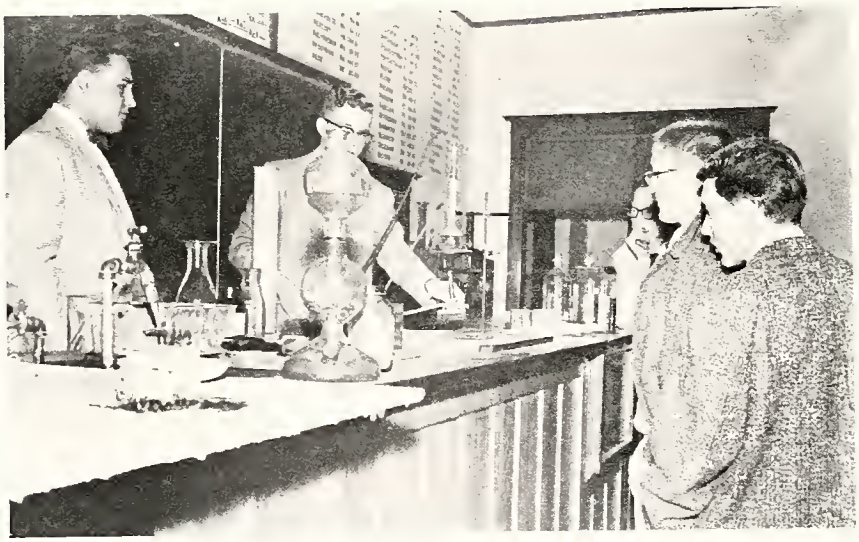
Petroleum

Electronics
and Instrumentation



# *E-Day*

Geology

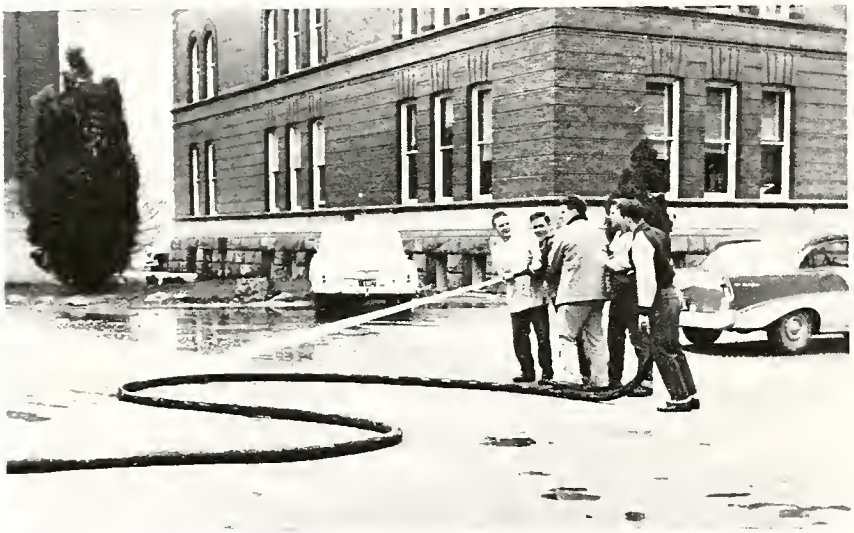


Chemistry

Mineral Dressing

# *M-Day*

Pie Anyone?



MSM Volunteer Firemen

More Lime

# *M-Day*

Reluctant Sinners

Mixmaster?

Score?

# *Around Campus*

Waiting for Maverick

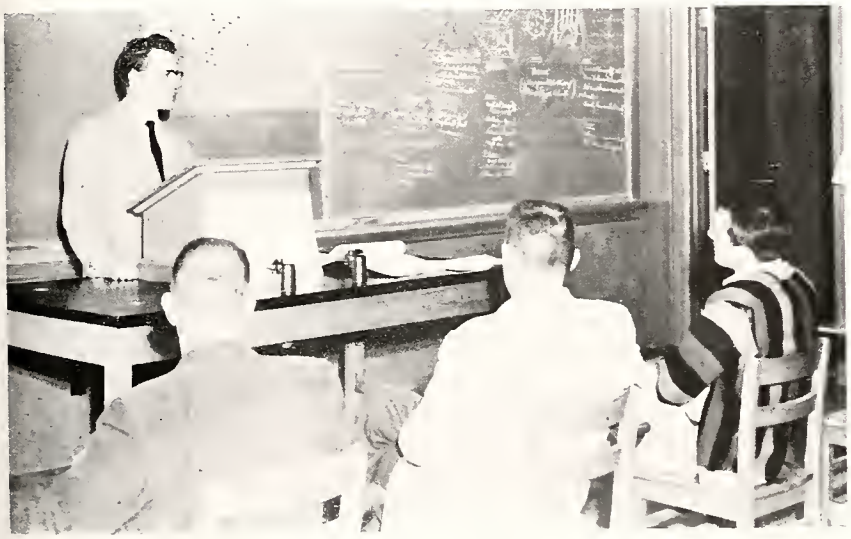
Quiet Please!

Yummy!

# *Around Campus*

Conway in Action

Rule in Action



Madrazo in Action

# *Around Campus*

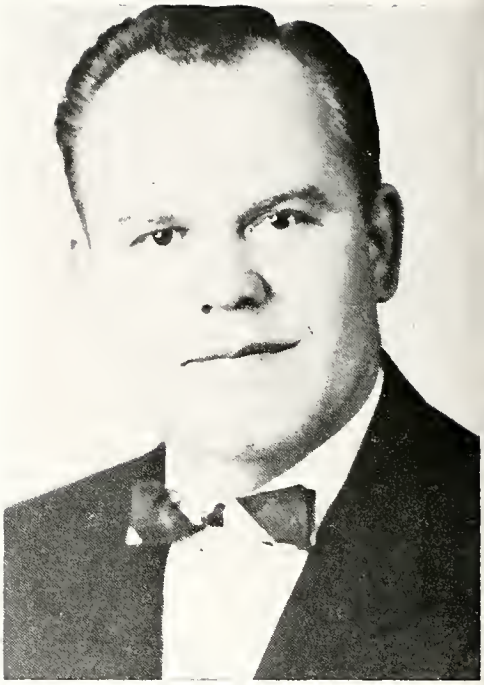
Here's a man who thinks for himself.

I've got a test tomorrow — now what's your trouble?

Home Economics Class

# ATHLETICS

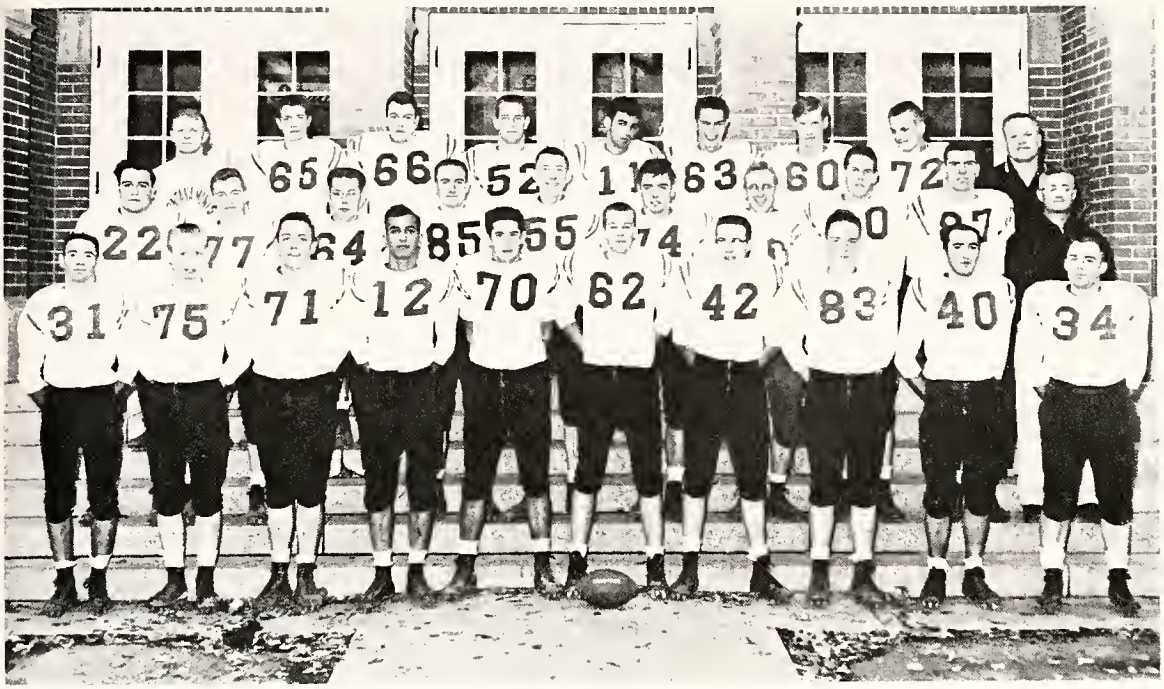
Dick Banghart — Manager



Ed Simonich — Coach

Cheerleaders: Gwen Christenot, Gail Madeen, Billie Todd, Sandi Maddock

# *Football*



THE MSM FOOTBALL SQUAD FOR 1958—LEFT to RIGHT, FRONT ROW: John Frisbie, Brad Bilyeu, Frank Gardner, Mohamed Moshin, Jerry Blcke, Lynn Waters, Jay Thompson, Bill Tiddy, Pete Sakellaris, Al Walkup. CENTER ROW: Kelly Hemmert, Bill Halvorson, Bob Kirk, Jim Vercella, Charles Conlan, Cam Brown, Ron Nordwick, Mike Keegan, John Engstrom, Dan McCarthy—assistant coach. BACK ROW: Dick Banghart, Pete Atkinson, Dan Rovig, Mike Hines, Dave Del Paggio, Dart Davis, Lee Nordahl, Al Mondlak and Coach Ed Simonich.

Spirit and determination characterized the 1958 edition of the Montana School of Mines football team. Coach Ed Simonich, working with 23 or less players, often found it impossible to conduct regular practices. Several players had little or no previous experience. Some had played Canadian football, which is much different from football in the United States. The only regulars back from the previous year were Al Walkup, Dart Davis and Kelly Hemmert. Because of scholastic commitments and lack of athletic scholarships, the Orediggers found it difficult to compete with other schools in the conference.

The Miners, playing only five conference games, were defeated by deeper and more experienced teams. Because of the lack of depth, experience and weight, the young Oredigger team was greatly hindered in its efforts. To show that they never quit, the Orediggers played their best game of the season against Northern, their last opponent of the year.

Al Walkup — Captain

The starting eleven

Kicking off the season

Kelly and Al make a good stop

Coaching from the sidelines

Hold it! That's far enough!

Hemmert saves six

Miner makes yards

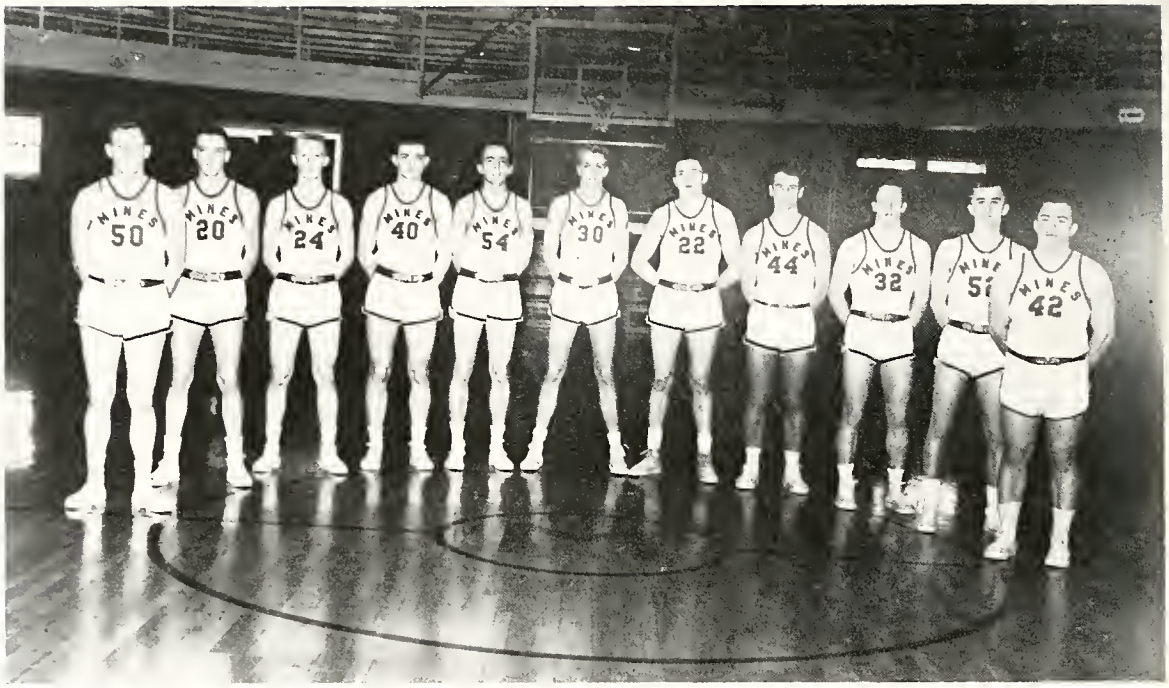
Enough for a first down

Light gets snuffed out

Help!!

Nice tackle

# *Basketball*




THE 1958-59 OREDIGGER BASKETBALL SQUAD, LEFT to RIGHT: Melvin Bennett, Ray Martinich, Bill Lane, Jack Weaver, Mike Good, Bob Boulter, Don Mahagin, Al Herring, Bill Thompson, Larry Pavlokowski, and Al Walkup.

## SEASON'S RECORD

| | | | |
|---|---|---|---|
| Miners | 71 | Ricks | 89 |
| Miners | 69 | Ricks | 79 |
| Miners | 50 | Northwest Community | 76 |
| Miners | 55 | Northwest Community | 78 |
| Miners | 52 | Northern | 55 |
| Miners | 54 | Western | 100 |
| Miners | 45 | Northern | 59 |
| Miners | 46 | Carroll | 75 |
| Miners | 60 | Northwest Community | 95 |
| Miners | 71 | N.W. Community (overtime) | 73 |
| Miners | 67 | Western | 76 |
| Miners | 66 | Eastern | 56 |
| Miners | 72 | Eastern | 91 |
| Miners | 76 | Rocky | 95 |
| Miners | 51 | Rocky | 64 |
| Miners | 75 | Carroll | 69 |

With only two monogram winners from the previous year, the Oredigger's basketball squad made a very good showing in the Montana Collegiate Conference. The Orediggers did not start rolling until the middle of the season, but from then on the team was a real threat to all opponents. Western, the conference champions, came from behind in the final seconds of play to edge the Miners in the last game between the two schools. The Orediggers won two of their last three home games, defeating Eastern and Carroll. All members of the team, with the exception of Mel Bennett, should return next season to make the Orediggers a definite threat for the conference championship.

Co-Captains:

Mel Bennett
and
Don Mahagin

The
First Five

Solid
Support

Let's get that ball

Fifteen for the Miners!

Higinbotham makes gift toss

Bennett passes to Weaver

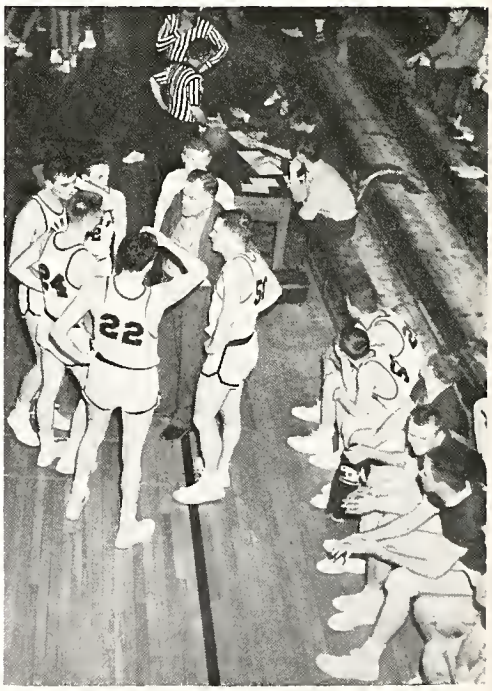
Mahagin shoots

Lane scores two

Thompson drives one in

Nice stiff arm, Ray

The crucial moment

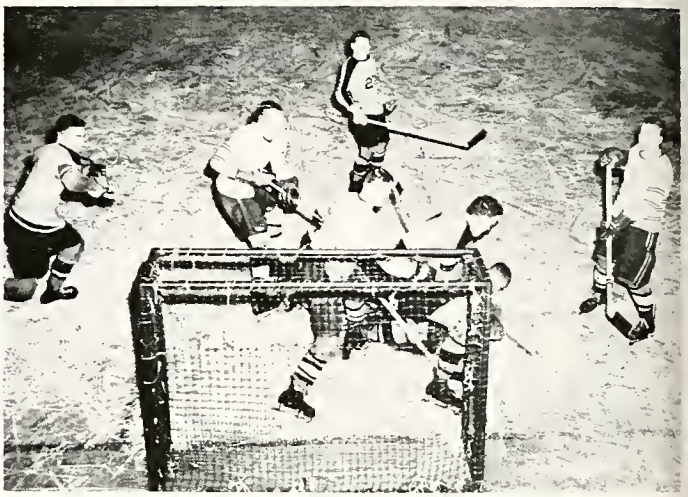


# *Hockey*

THE 1958-59 HOCKEY TEAM—FRONT ROW, LEFT to RIGHT: John Schulhauser, Doug Boehme, Mike Maddocks, Sid Brown, George Bronson, Steve Keddie and Larry Katcher. BACK ROW: Al Lindquist, William Hutton, Dart Davis, Darrel Reid, Harry Greenberg, Jack Hunter, Garry Swanson, Pete Atkinson, Lynn Waters, Ron Nordwick and Coach Jack Leary.

Hockey is a very popular sport in Butte and especially at the School of Mines. Each year the boys from Canada work up plenty of enthusiasm for their national sport and the School of Mines turns out a colorful and scrappy team. Mainly because of lack of funds, not talent, the pucksters were able to play only one intercollegiate game this year. They lost this one to an extremely good Montana State University team composed of top-flight Canadian amateurs.

# *Hockey*

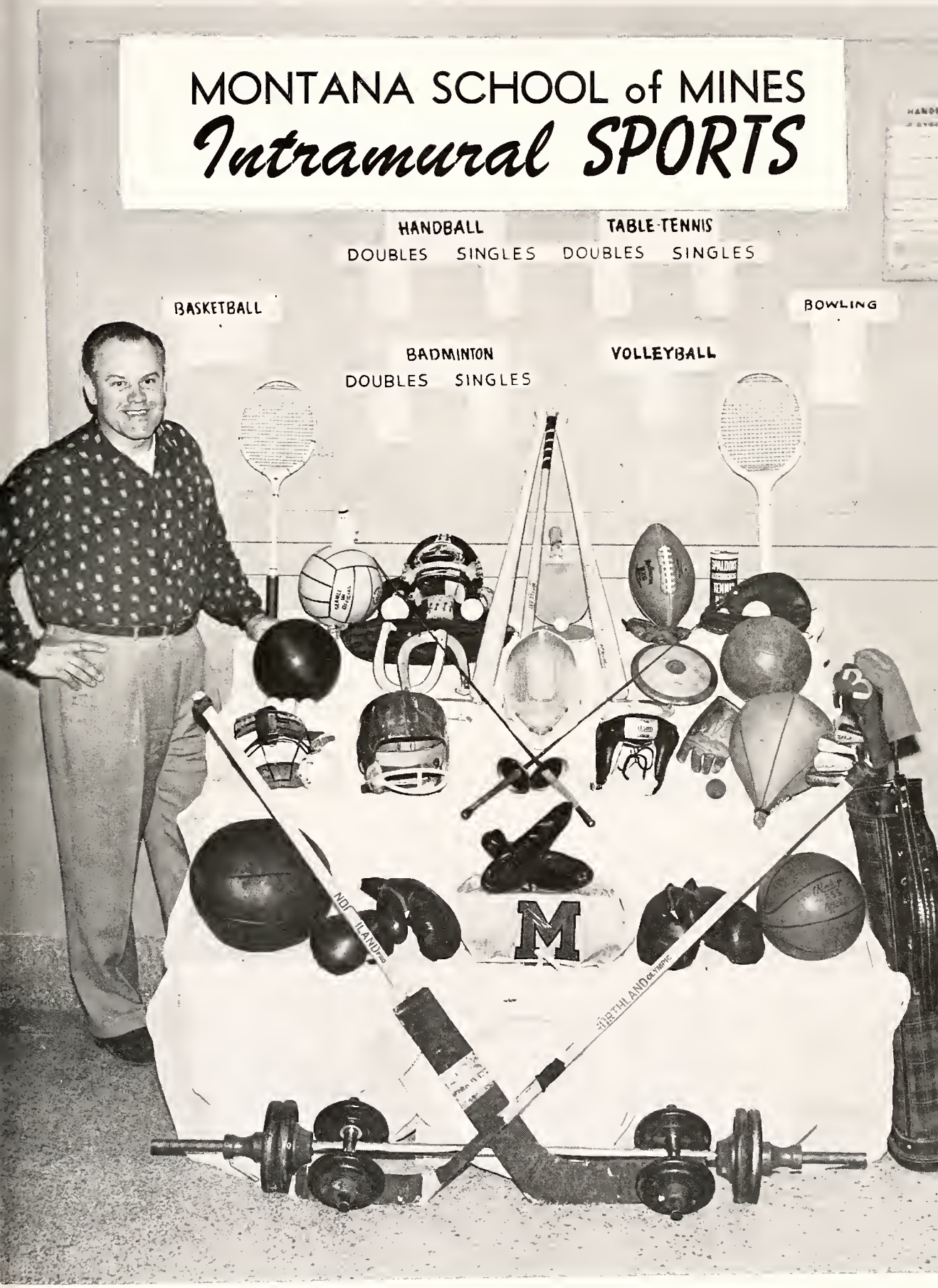


Stop that puck!

Maybe next time

This is hockey?

# MONTANA SCHOOL of MINES
# *Intramural SPORTS*



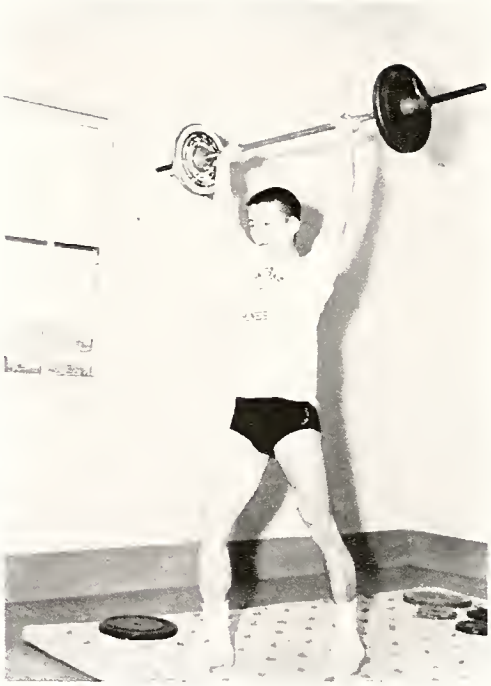
# Intramural Sports

The extensive intramural program, that was launched last year, continued this year with renewed vigor. Coach Simonich has greatly increased the chances for everyone to play some type of sport. This year intramurals were held in table tennis, badminton, handball, basketball, bowling, weightlifting, and volleyball.

Mondlak bangs one

Slap happy

Groff lifts aloft



Which weighs most?

Good Hit!

BOOSTERS

Star

a

for

REACHING

The student of today may be doing
just that tomorrow.

As education presses upon fascinating frontiers
in the race into space.

Adjusting to an era made scientific by missile
and satellite.

So industry adjusts,
particularly in metals.

**THE ANACONDA COMPANY**

*Step by Step — Year by Year*
*Advances This Frontier*

*Best Wishes to the Graduates*

—★—

Miner's
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IT PAYS TO PLAY
All Leading Brands of
ATHLETIC EQUIPMENT
Distributed by
**Treasure State**
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**SPIER'S MEN'S STORE**
"Chuck" Richards — Remo J. Rochelle

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Complete Insurance
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SAM BABICH
District Manager

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BUTTE, MONTANA

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*"Everything Fine in the Pastry Line"*

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Young Men!

PREPARE FOR TOMORROW
WHERE THE AGE
OF SPACE IS NOW

*Train in the*

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TEXACO SERVICE
COMPLETE
AUTO SERVICE
SPORTING GOODS
*S&H Green Stamps*
501 SOUTH EXCELSIOR
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Your Complete
Department Store

BURRS

Park and Dakota
BUTTE, MONTANA

—★—

*We Give and Redeem*
*S&H Green Stamps*

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PARK & EXCELSIOR
SERVICE

OPEN 24 HOURS
FOR YOUR CONVENIENCE

Close to the School

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PRUDENTIAL
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Guarantees 6% per annum

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BUTTE, MONTANA

Bill Mahagin

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BILL MAHAGIN — TOMMY QUINLAN

Pickup and Delivery — Marfak Lubrication — Tires
Batteries — Accessories — Washing

"WE GIVE S & H GREEN STAMPS"

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# 3 1/2%

per annum current rate on the full amount of your
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All deposits insured up to
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Government agency.

## PRUDENTIAL
## Federal Savings

The Friendly Savings Institution

MAIN and BROADWAY BUTTE

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*Montana's Leading Department Store*

BUTTE — LIVINGSTON

*You and I*

Should Have a Pleasant Drink

— at —

**The U & I CLUB**

—★—

MEET

ED, BERNIE and PHYLLIS

Mixologists

and

Pool Shooters

136 WEST PARK STREET

*Shanty*

BAR - CAFE

*We Feature Fried Chicken*

*Home-Cooked Meals*

20 SOUTH MONTANA STREET

Leggat

BARBER SHOP

*Where Mines' Students*

*Get Clipped*

TOM and GOODIE

EDUCATION

Would be made difficult
Without proper books.

So it is at home.

Some improvements would be almost
Impossible without the proper tools.

— Consult —

Your hardware dealer.
He can readily help you.

THE MONTANA HARDWARE CO.

BUTTE (Wholesale Only) GREAT FALLS

## WE'RE ALWAYS THERE WITH POWER TO SPARE

Today our system has nearly twice as much power available as it did at the end of World War II.
Our directors, officers and engineers are planning constantly to keep our customers supplied with plenty of power—today and tomorrow. Generating plants and transmission lines to serve you . . . and your children . . . in the years to come are now in the minds of our far-sighted planners.
Given the opportunity to continue providing adequate power, we WILL. You can count on us.

# THE MONTANA POWER CO.

*Trethewey's*

## MUSIC BOX

142 West Park Street
BUTTE, MONTANA

Records — HiFi
Music — Instruments

## White's Funeral Home

INCORPORATED
Rudy Sayatovic, President

*"Our Greatest Asset is Your Good Will"*

PARKING FACILITIES
307-311 W. Park Dial Butte, 6531
In Butte Since 1903

*Best Wishes to the Graduating Class*

## CHRISTY'S WALDORF FOODS

Phones: 6537, 6538 120 W. Park St.

Compliments . . .

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KEEPSAKE DIAMONDS
LONGINES, WITTNAUER
BULOVA WATCHES

Easy Credit Terms
We Give S&H Green Stamps
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J. D. and Eileen Flynn

*Gifts of Distinction*

205 W. Park Street Butte, Montana

— Phone 3765 —

"I Have Always Been Interested in the Activities of the Student Body and Wish Lots of Success to the Graduating Class."

Mayor W. P. Donnelly

## Williams Camera Shop

33 WEST PARK BUTTE, MONTANA

*Complete Photographic Service*

— Phone 2-0454 —

## WEIN'S

*Montana's Largest Men's Store*

33 to 37 EAST PARK STREET

Satisfaction or Money Refunded

*Montana Owned and Montana Operated*

# TREASURE STATE

## LIFE INSURANCE COMPANY

**Extends Best Wishes to the Graduates of 1959**

*Best Wishes . . .*
*to the Class of 1959*

KOPR
"Copper"
BUTTE

COMPLIMENTS OF
LOUIS S. COHN CO.
Wholesale Cigars
and Tobacco
BUTTE — GREAT FALLS — BILLINGS

EDUCATION

Should be gradual
A step by step process —
For it's true worth is the end result.

It is not unlike

BUSINESS

Where all effort —
Step by step — has one goal,
The SATISFIED CUSTOMER.

**INTERSTATE LUMBER COMPANY**

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The TOGGERY
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MONTANA'S LEADING STORE
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BOOKS—MAGAZINES—STATIONERY
GREETING CARDS
for All Occasions

—★—

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43 West Park Butte, Montana

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"Montana's Largest Shoe Store"

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## *GREETINGS . . .*

*To Our Friends at the School of Mines*

For any of your banking needs, see us. The officers and staff will welcome the opportunity to serve you.

## METALS BANK & TRUST CO.

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*Compliments . . .*

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